WM-6/16

SERVICE MANUAL

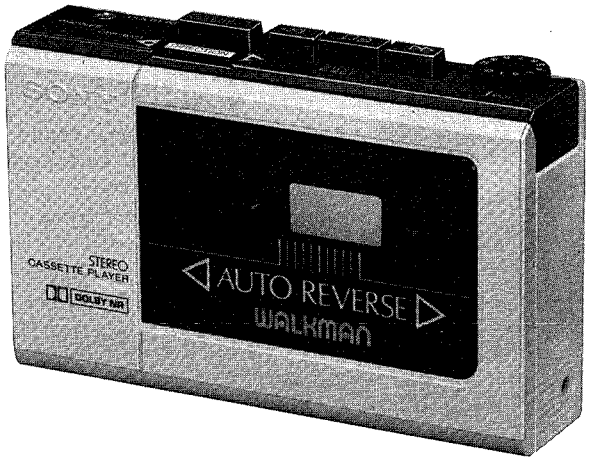
- **Refer to MDR-10L Service Manual issued previously for information of headphones supplied with this set.**

WM-6:

AEP Model
UK Model
E Model

WM-16:

US Model
Canadian Model



Tape Transport Mechanism Type	MT-WM17-76

SPECIFICATIONS

Tape track	4-track 2-channel stereo
Fast winding time	Approx. 2 min. with Sony cassette C-60
Frequency response	(DOLBY NR OFF) 40–15,000 Hz (with the TAPE selector set to METAL) 40–15,000 Hz (with the TAPE selector set to NORM)
Power output	18 mW + 18 mW (at 10% harmonic distortion, load impedance 32 ohms)
Power requirements	3 V dc Two batteries, size AA (IEC designation R6) Battery case EBP-500 (optional): two batteries, size D (IEC designation R20) DC IN 3 V jack accepts: Sony AC-37 ac power adaptor (optional) for use on 220 or 240 V ac, 50 Hz or Sony AC-30 ac power adaptor (optional) for use on 120 V ac, 60 Hz or Sony DCC-70 car battery cord (optional) for use on 12 V car battery
Battery life (continuous playback hours)	Approx. 2.5 hours with supplied Sony SUM-3(NS) New Super batteries Approx. 5 hours with Sony Eveready AM3 alkaline batteries For maximum performance we recommend the use of alkaline batteries.
Dimensions	Approx. 138 x 87 x 34 mm (w/h/d) (5½ x 3½ x 1⅜ inches) not incl. projecting parts and controls
Weight	Approx. 320 g (11.3 oz) incl. batteries, not incl. other accessories

'Dolby' and the double-D symbol are the trade marks of Dolby Laboratories Licensing Corporation. Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

MICROFILM

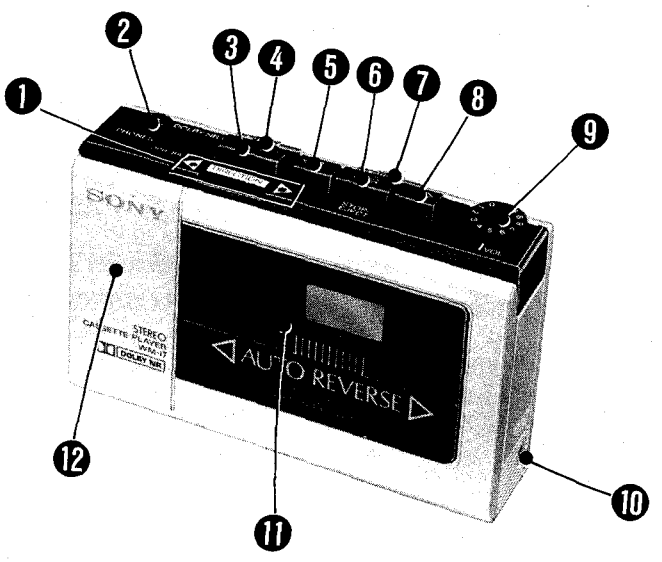
STEREO CASSETTE PLAYER

SONY®

TC

SECTION 1
OUTLINE

1-1. PARTS IDENTIFICATION



❶ DIRECTION button and OPR/BATT (operation/battery) indicators
❷ PHONES (headphones) jack
❸ PLAY (playback) button
❹ DOLBY NR switch
❺ ◀◀ button
❻ ■≜STOP/EJECT button
❼ TAPE selector
❽ ▶▶ button
❾ VOL (volume) control
❿ DC IN 3 V. (external power input) jack
⓫ Cassette holder
⓬ Battery compartment

1-2. MODEL IDENTIFICATION

– Specification label on cabinet –

WM-6

SONY
STEREO CASSETTE PLAYER WM-6
BATTERY SUPPLY : 1.5V x2 IEC R6 JIS SUM-3 SIZE AA
MADE IN KOREA

AEP Model
UK Model

SONY
STEREO CASSETTE PLAYER WM-6
BATTERY SUPPLY : 1.5V x2 IEC R6 JIS SUM-3 SIZE AA
MADE IN JAPAN

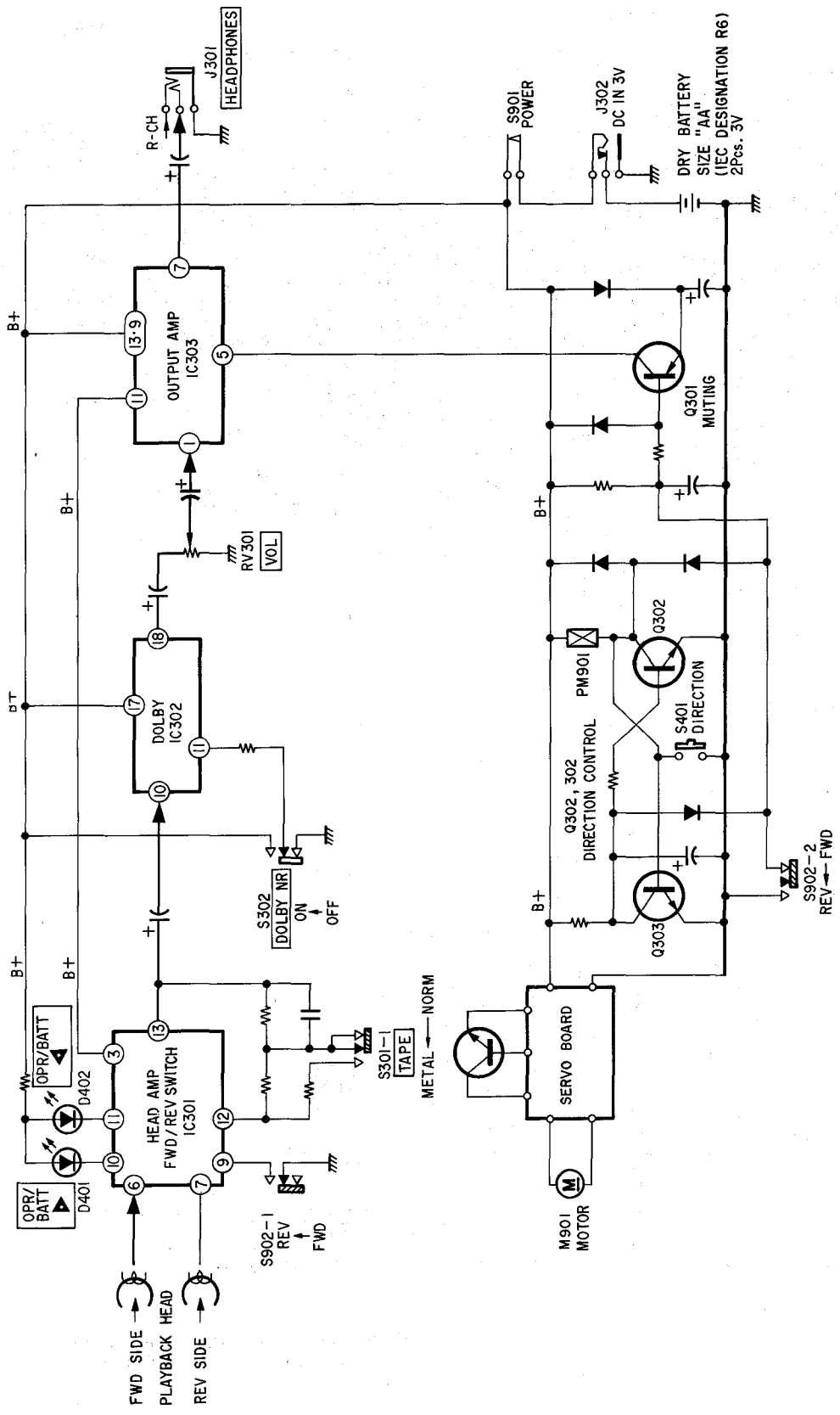
E Model

WM-16

SONY
STEREO CASSETTE PLAYER WM-16
BATTERY SUPPLY : 1.5V x2 IEC R6 JIS SUM-3 SIZE AA
MADE IN KOREA

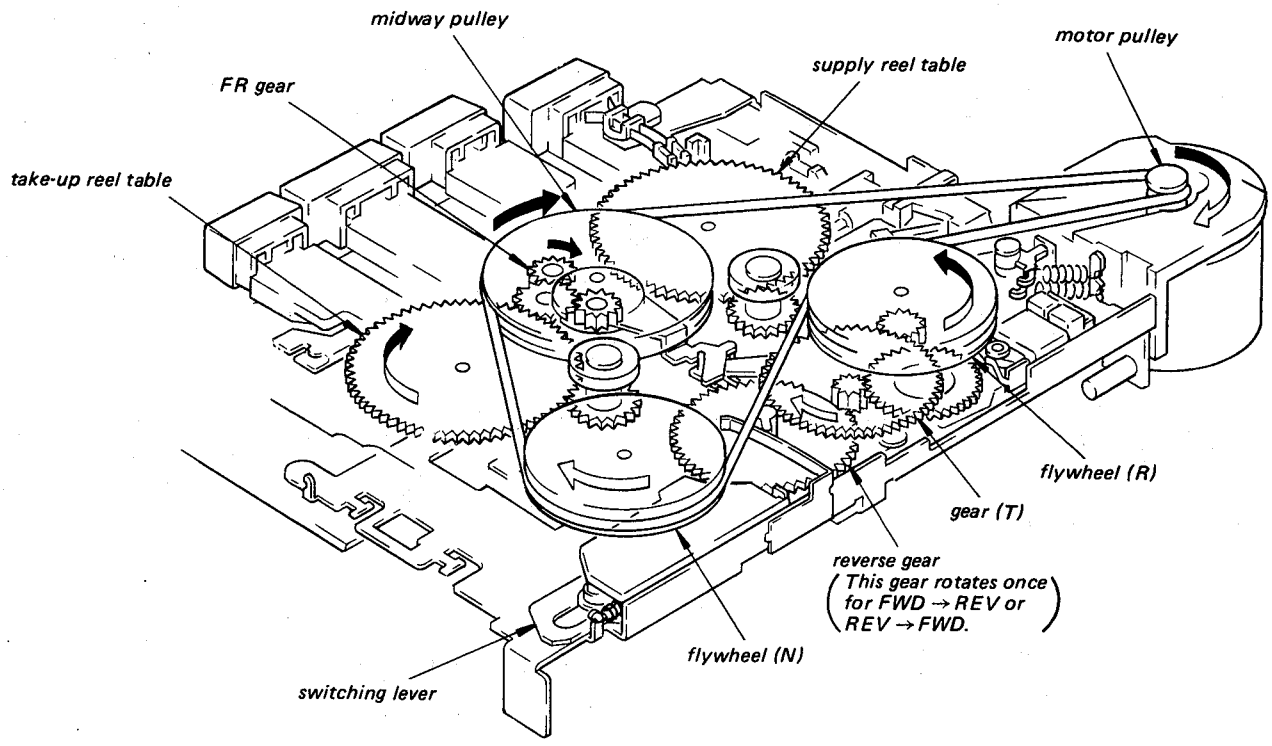
US Model
Canadian Model

1-3. BLOCK DIAGRAM



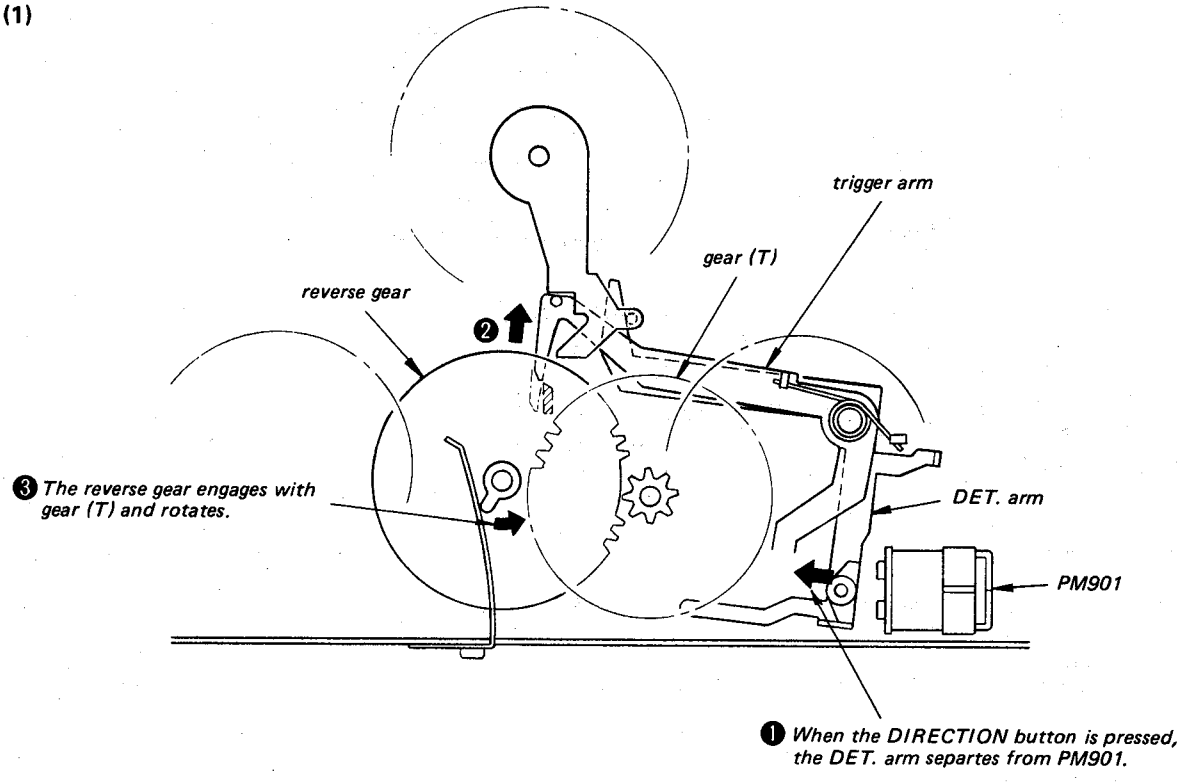
1-4. MECHANISM DESCRIPTION

[Rotating Direction of Each Gear in FWD playback]

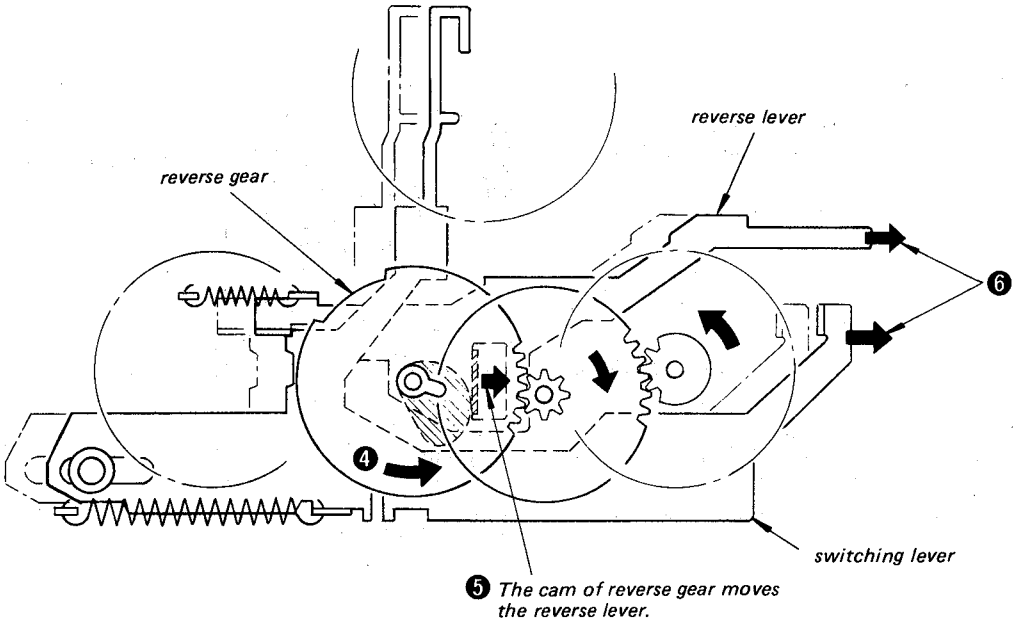


[FWD playback → REV playback]

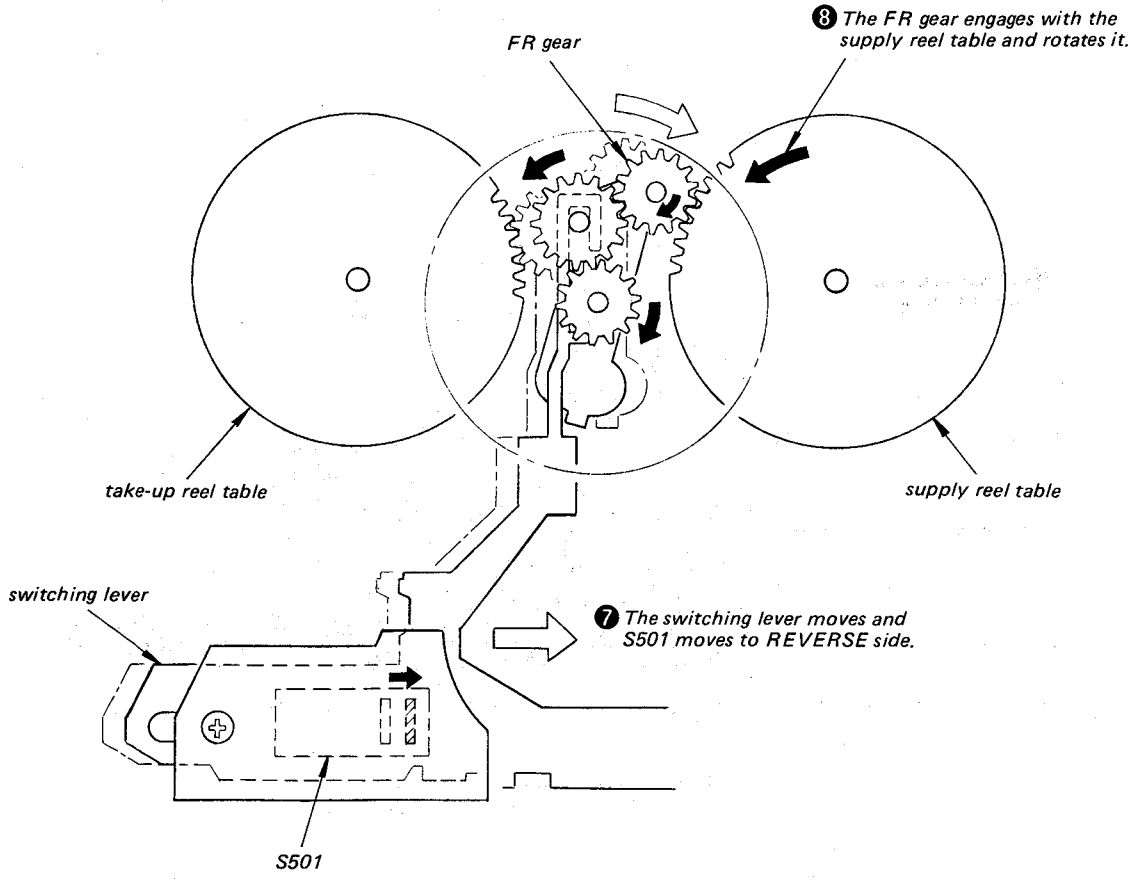
(1)


trigger arm
gear (T)
reverse gear
❷
❸ The reverse gear engages with gear (T) and rotates.
DET. arm
PM901
❶ When the DIRECTION button is pressed, the DET. arm separtes from PM901.

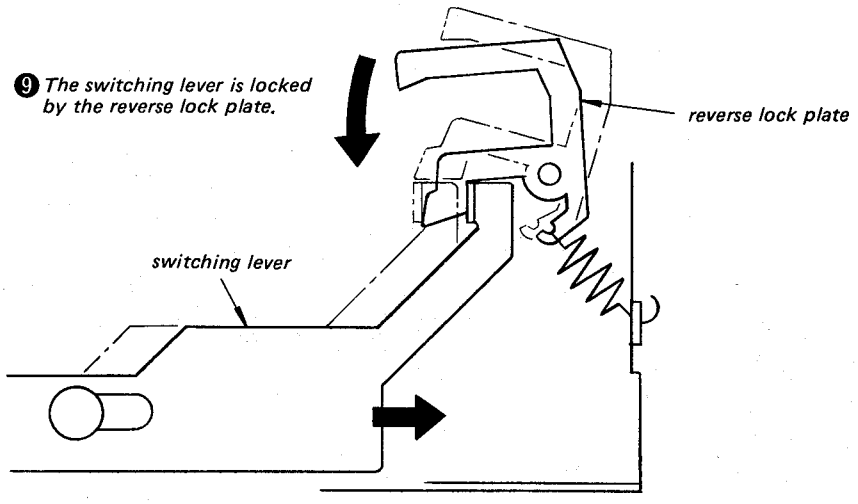
(2)


reverse lever
reverse gear
6
4
switching lever
5 The cam of reverse gear moves the reverse lever.

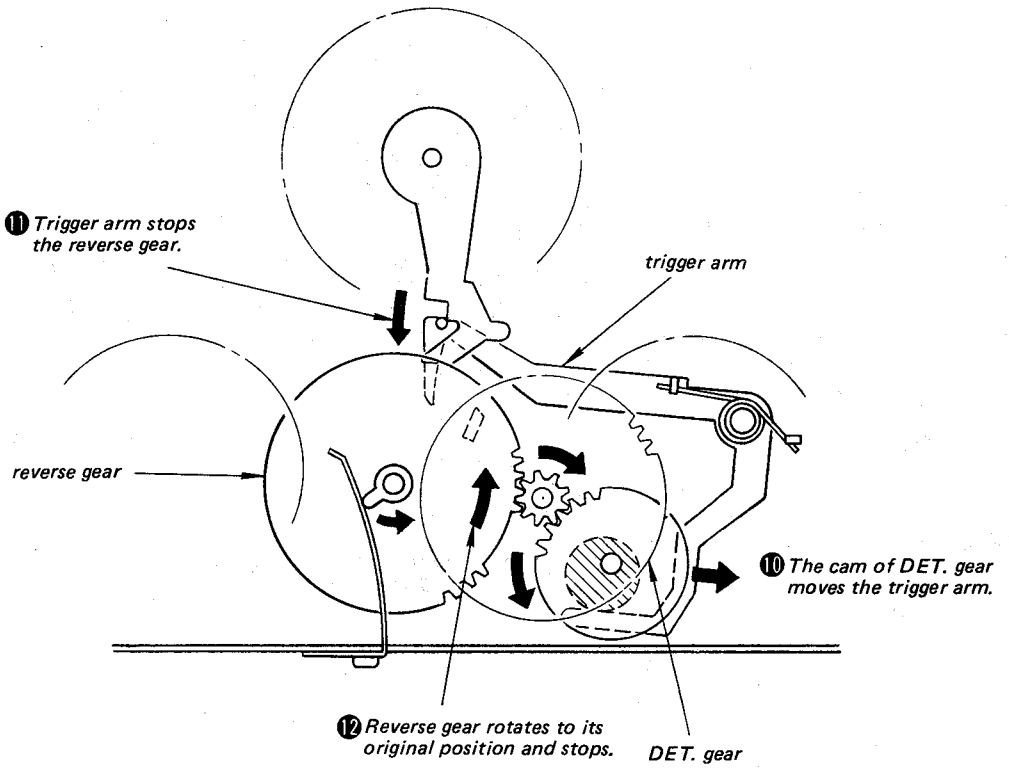
(3)


8 The FR gear engages with the supply reel table and rotates it.
FR gear
take-up reel table
supply reel table
switching lever
7 The switching lever moves and S501 moves to REVERSE side.
S501

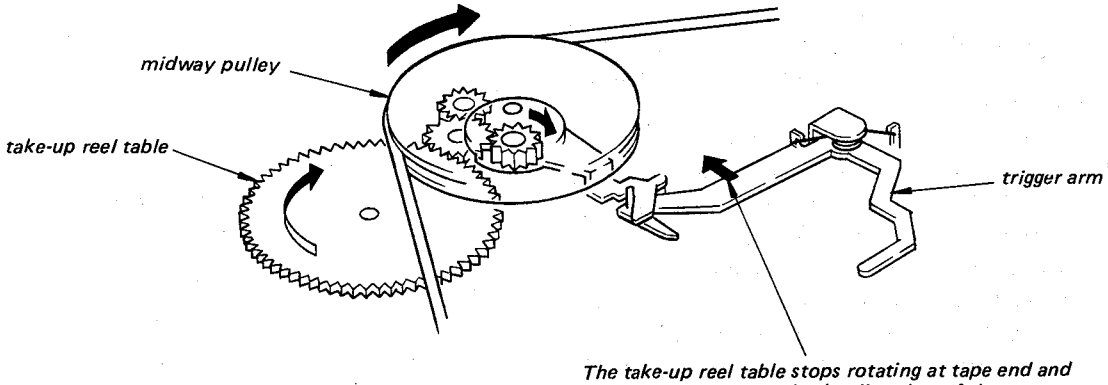
(4)


❾ The switching lever is locked by the reverse lock plate.
reverse lock plate
switching lever

(5)

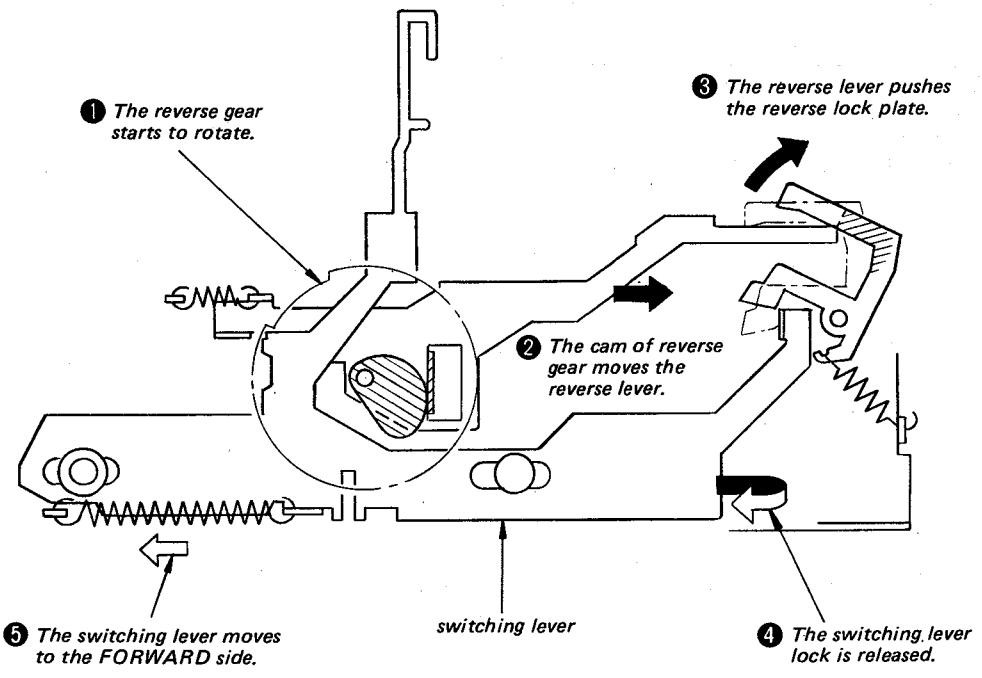

⓫ Trigger arm stops the reverse gear.
trigger arm
reverse gear
⓾ The cam of DET. gear moves the trigger arm.
⓬ Reverse gear rotates to its original position and stops.
DET. gear

[FWD playback → Tape end → REV playback]



The take-up reel table stops rotating at tape end and the trigger arm moves in the direction of the arrow. The reverse gear engages with gear (T) and the mechanism goes into REV state.

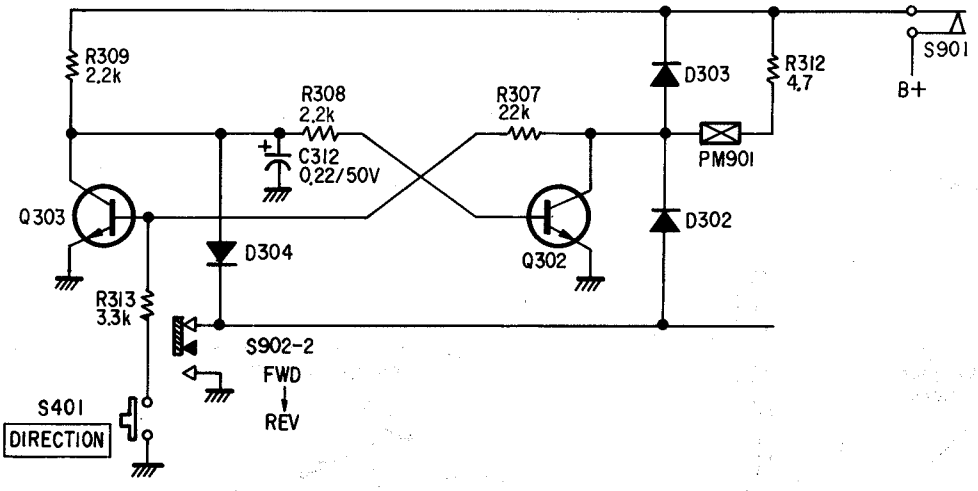
[REV playback → FWD playback]


❶ The reverse gear starts to rotate.
❸ The reverse lever pushes the reverse lock plate.
❷ The cam of reverse gear moves the reverse lever.
❺ The switching lever moves to the FORWARD side.
switching lever
❹ The switching lever lock is released.

1-5. CIRCUIT DESCRIPTION

(Direction Control Circuit)

The direction control circuit on this model is composed of the flip-flop circuit (Q302 and Q303) as shown below. When the PLAY button is pressed, the leaf switch (S901) turns on and power is supplied to Q302 and Q303.
At this point Q302 is off and Q303 is on.
When DIRECTION button (S401) is pressed during playback, Q302 turns on and Q303 turns off. The plunger (PM901) turns on when Q302 goes on and the mechanism switches the playing direction.
In the middle of the switchover, the base of Q302 goes low by S902-2 (S902 is a shorting type switch). Then the flip-flop inverts, Q302 turns off and Q303 turns on.

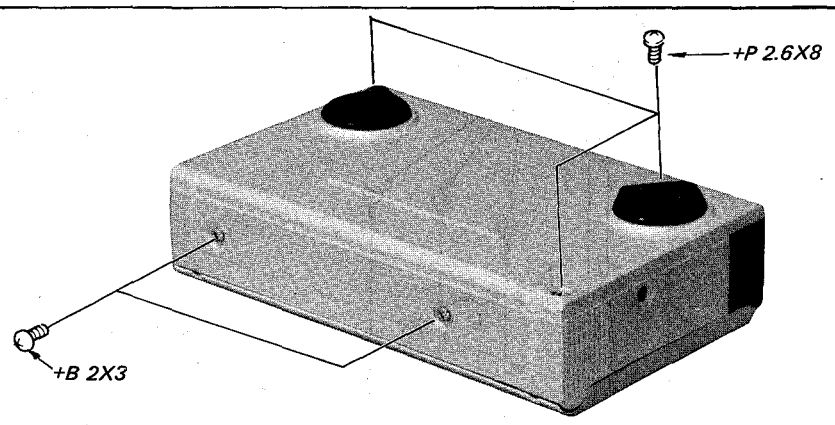


SECTION 2
DISASSEMBLY

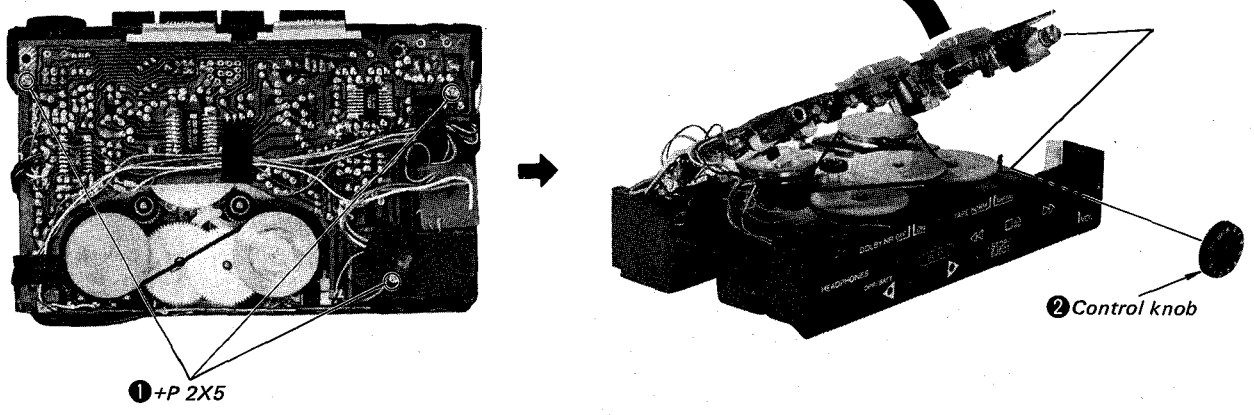
2-1. DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.

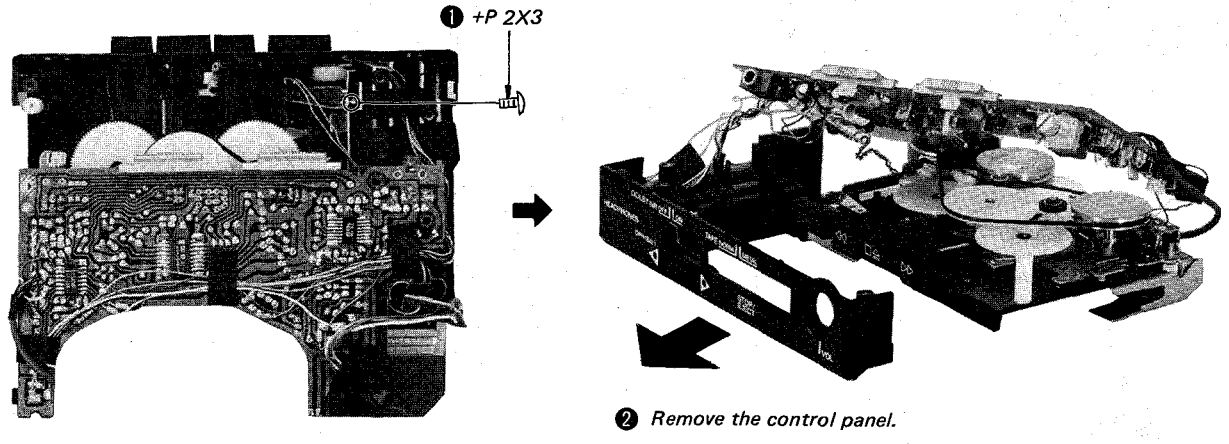
CABINET



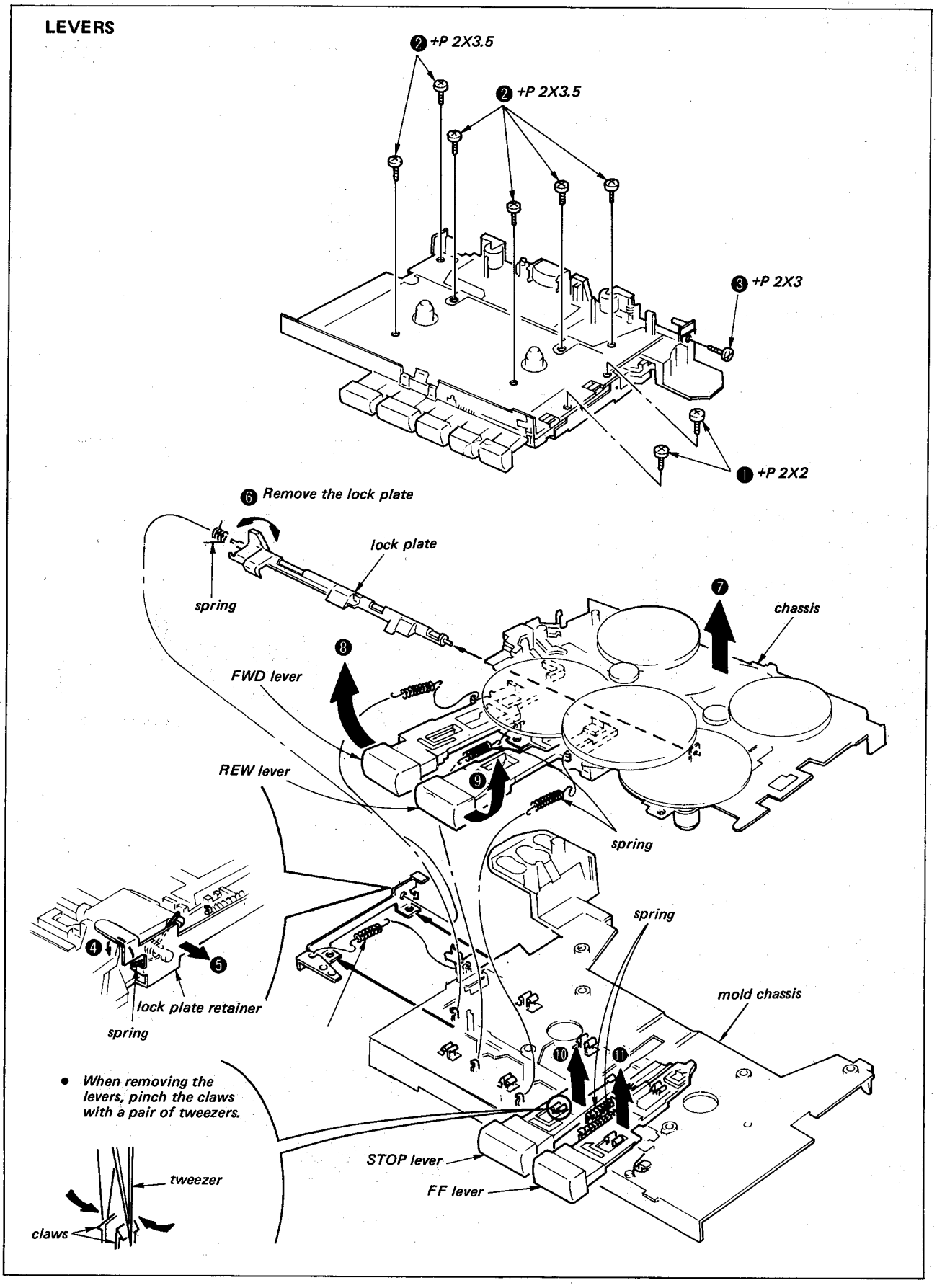
MAIN BOARD



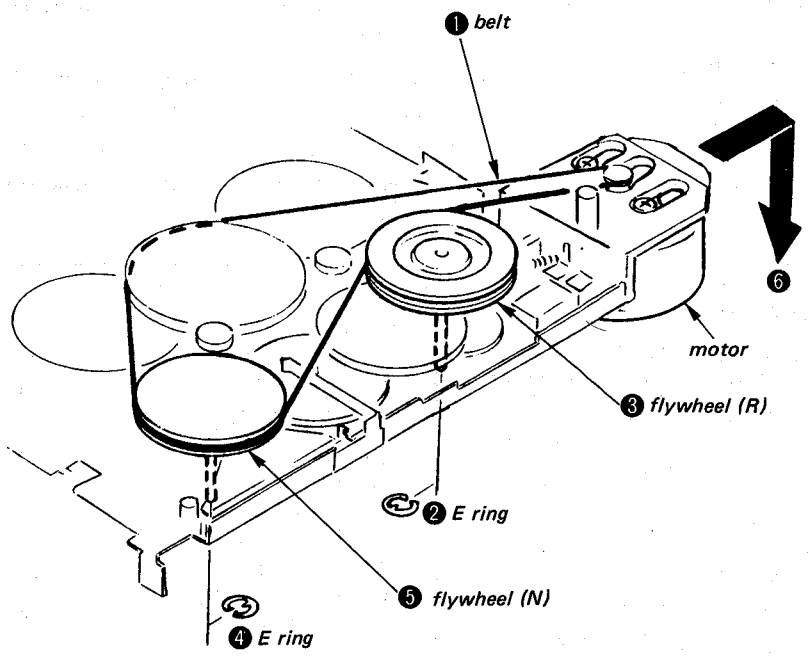
CONTROL PANEL, MECHANISM SECTION



LEVERS


❷ +P 2X3.5
❷ +P 2X3.5
❸ +P 2X3
❶ +P 2X2
❻ Remove the lock plate
lock plate
spring
❼
chassis
❽
FWD lever
REW lever
❾
spring
spring
❹
❺
lock plate retainer
spring
mold chassis
❿
⓫
• When removing the levers, pinch the claws with a pair of tweezers.
tweezer
claws
STOP lever
FF lever

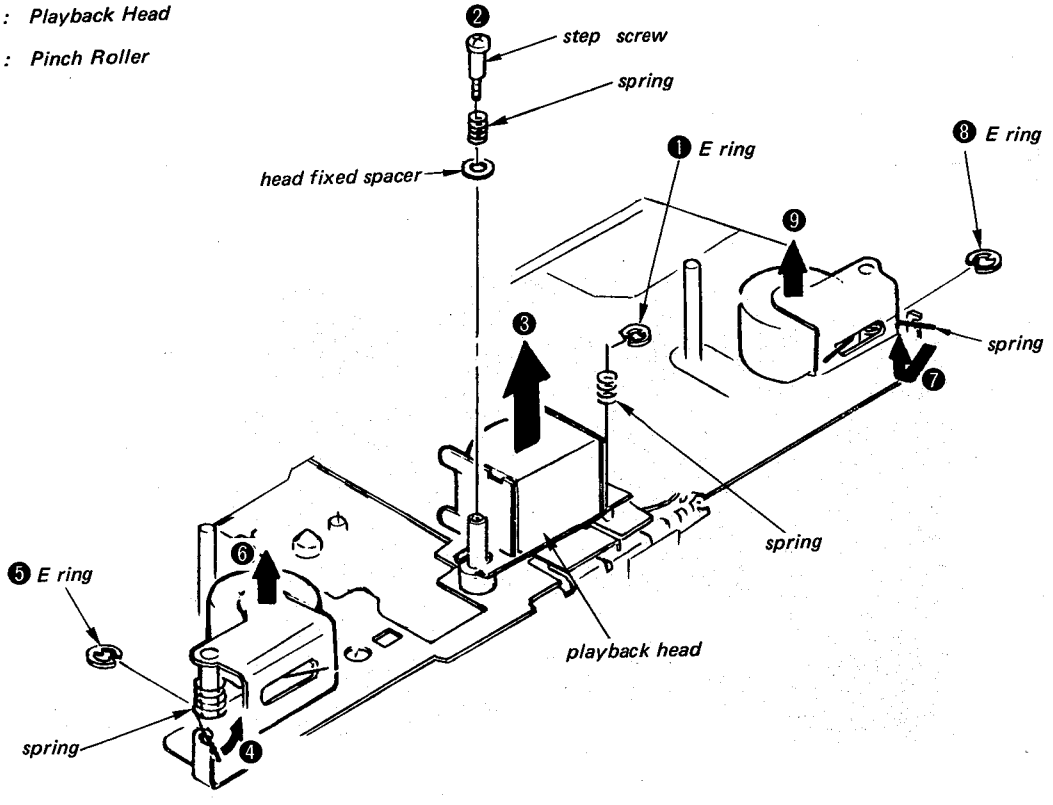
BELT, FLYWHEEL, MOTOR



PLAYBACK HEAD, PINCH ROLLERS

❶ – ❸ : *Playback Head*

❹ – ❾ : *Pinch Roller*



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

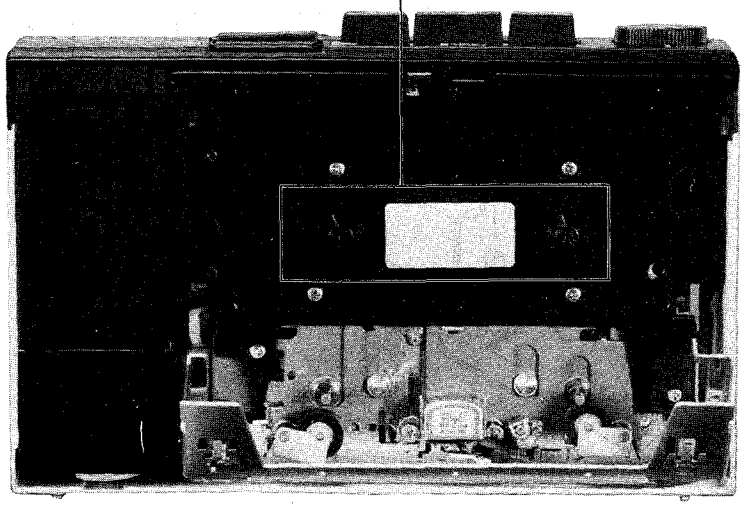
1. Clean the following parts with a denatured-alcohol -moistened swab:
   playback head — pinch roller
   rubber belts — capstan
   idlers
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise indicated.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	25 – 45 g•cm (0.35 – 0.62 oz•inch)
FWD Back Tension		2.5 – 4.5 g•cm (0.04 – 0.06 oz•inch)
REV	CQ-102RB	25 – 45 g•cm (0.35 – 0.62 oz•inch)
REV Back Tension		2.5 – 4.5 g•cm (0.04 – 0.06 oz•inch)
FF/CUE	CQ-201B	more than 90 g•cm (1.25 oz•inch)
REW/REVIEW		

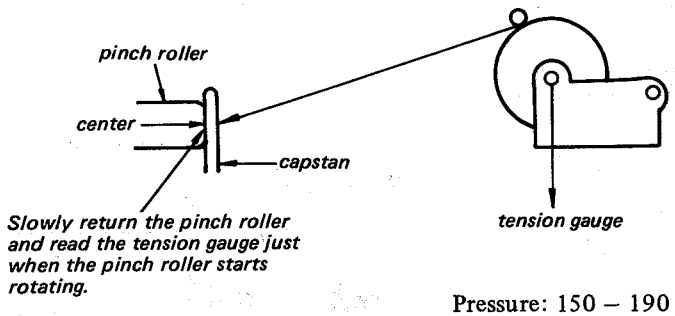
Tape Tension

Mode	Tension meter	Meter reading
FWD	CQ-403A	more than 70 g (2.5 oz)
REV	CQ-403R	more than 70 g (2.5 oz)



Pinch Roller Pressure Adjustment

– Playback Mode –


pinch roller
center
capstan
Slowly return the pinch roller and read the tension gauge just when the pinch roller starts rotating.
tension gauge

Pressure: 150 – 190 g (FWD, REV)
(5.4 – 6.8 oz)

Playback head height adjustment

Tape Path Adjustment

Procedure:

Run the mirror cassette in FWD and REV playback and make sure the playback head has no tape curls or tape twists.
When they have, adjust the height with the head shim.

- **Playback head height adjustment shim**

t (mm)	Part No.
0.1	3-316-457-01
0.15	3-316-457-11
0.2	3-316-457-21

Solenoid Position Adjustment

Procedure:

1. Rotate the flywheel and adjust the solenoid mounting screw for the position where the movable iron core adsorbs the solenoid.
2. Make sure the trigger arm has overstroke between the DET. arm shaft and the movable iron core adsorbs the solenoid. (Fig. 2)

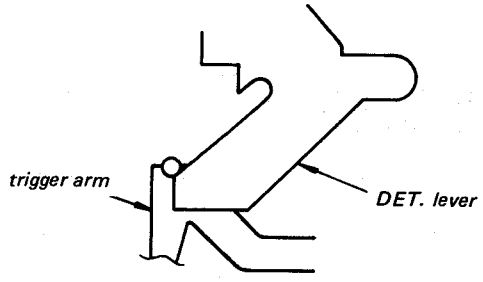


Fig. 1

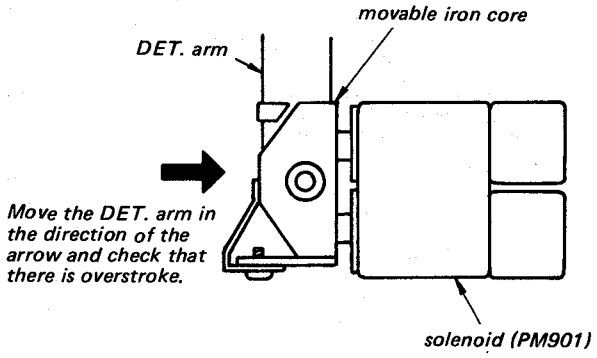

movable iron core
DET. arm
Move the DET. arm in the direction of the arrow and check that there is overstroke.
solenoid (PM901)

Fig. 2

Movable Iron Core Separation Strength Measurement

- Measure the DET. arm shaft with the tension gauge (Fig. 3). At this point positions of the trigger arm and the DET. lever should be as shown in Fig. 4.

Specification: 110 g – 150 g

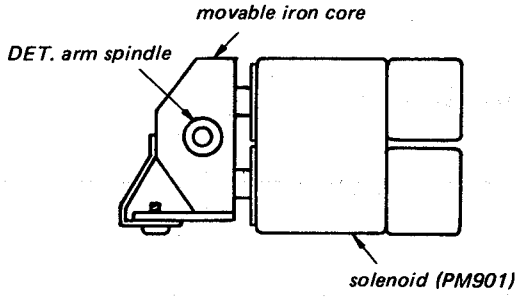


Fig. 3

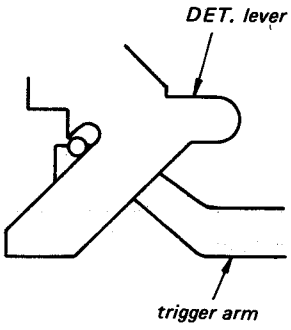


Fig. 4

- After the adjustment, lock the adjustment screw with locking compound. (Fig. 5)

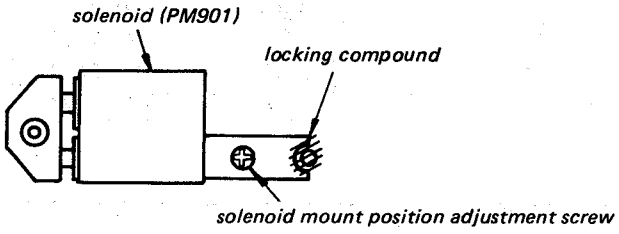


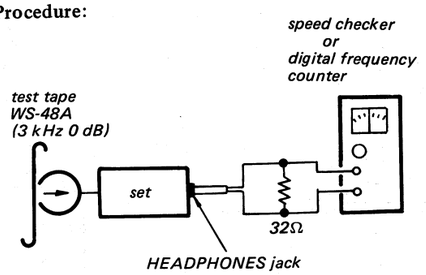
Fig. 5

3-2. ELECTRICAL ADJUSTMENTS

1. The adjustments should be performed in the order given in the Service Manual.
2. The adjustments should be performed for both L-CH and R-CH unless otherwise indicated.
3. Clean the following parts with a denatured-alcohol-moistened swab before the adjustments.
   playback head
   pinch roller

Tape Speed Adjustment

Procedure:



- Play tape WS-48A and adjust tape speed for the specification.

Specification:

Speed checker	Digital frequency counter
± 3 %	2,910 – 3,090 Hz

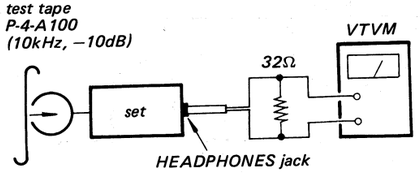
Frequency difference between the beginning and end of the tape.
FWD playback: within ± 1 % (±30 Hz)
REV playback: within ± 1.5 % (±45 Hz)

Adjustment Location:

Playback Head Azimuth Adjustment

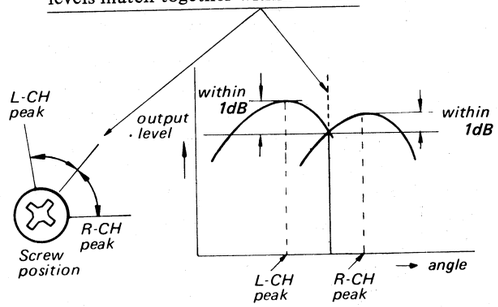
Procedure:

1. Mode: playback (FWD/REV)

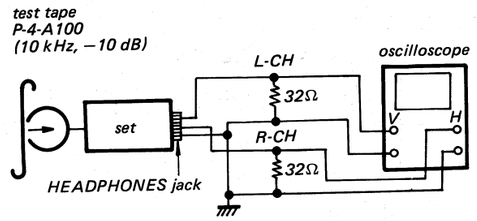


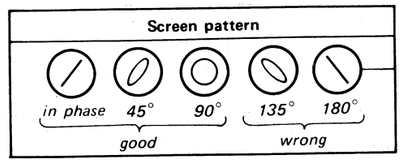
Adjust for both in forward (▶) direction and reverse (◀) direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 1 dB.



3. Phase Check
   Confirm that phase difference between L-channel and R-channel is within 90°.

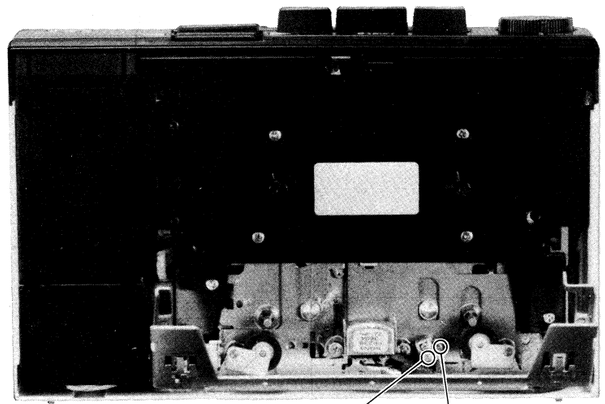




4. After the adjustment, lock the screws with locking compound.

Note: Finish the screw adjustment with a turn in the clockwise direction.
Repeat FWD and REV direction two or three times.

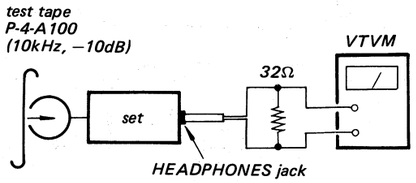
Adjustment Location:



Playback Head Azimuth Adjustment

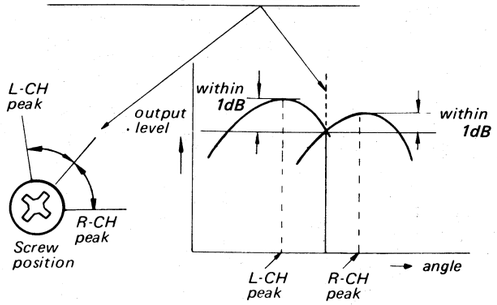
Procedure:

1. Mode: playback (FWD/REV)

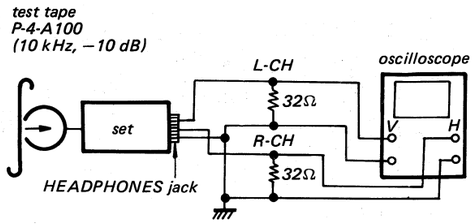


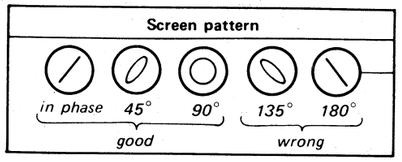
Adjust for both in forward (▶) direction and reverse (◀) direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 1 dB.



3. Phase Check
Confirm that phase difference between L-channel and R-channel is within 90°.

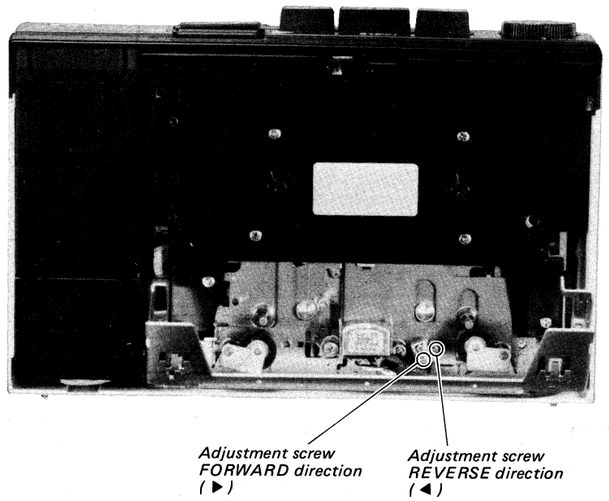




4. After the adjustment, lock the screws with locking compound.

Note: Finish the screw adjustment with a turn in the clockwise direction.
Repeat FWD and REV direction two or three times.

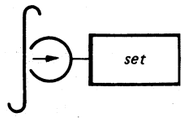
Adjustment Location:



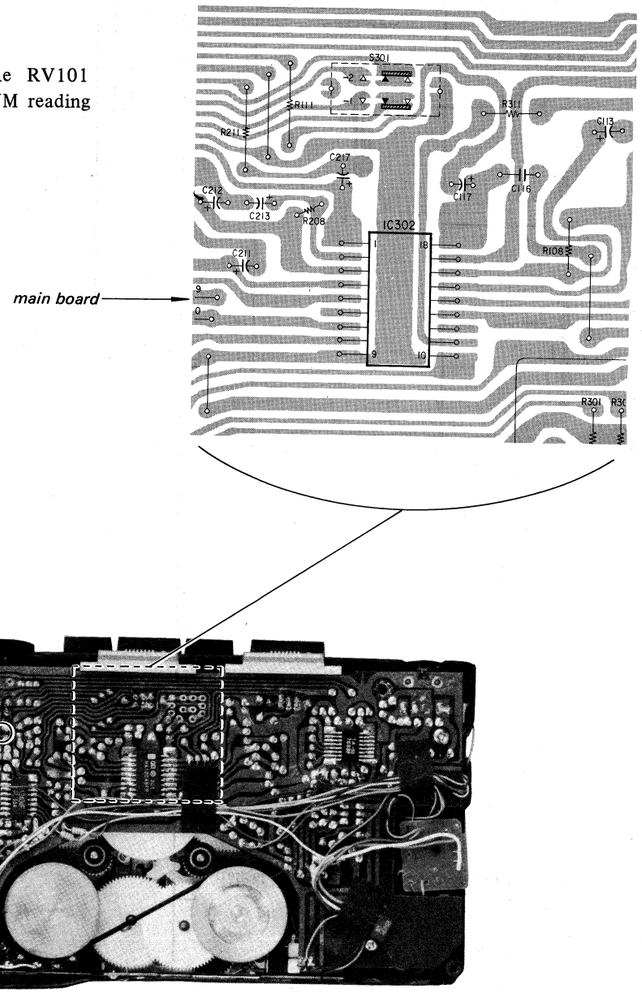
Dolby Level Adjustment

Procedure:

1. Mode: Playback



2. Play tape P-4-D400 and adjust the RV101 (L-CH), RV201 (R-CH) so that VTVM reading is 100 mV.



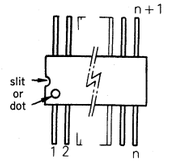
Adjustment Location: main board

SECTION 4 DIAGRAMS

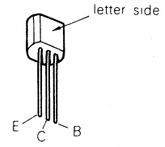
4-1. MOUNTING DIAGRAM — *Conductor side* —

- **Semiconductor Lead Layouts**

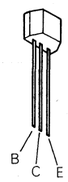
BA3404F
HA12048FP
TA7688F



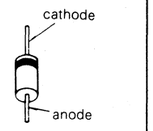
2SA1175
2SD1020



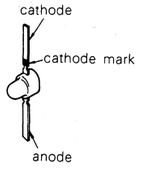
2SC2458



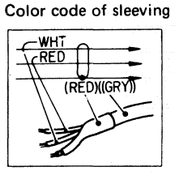
1SS119



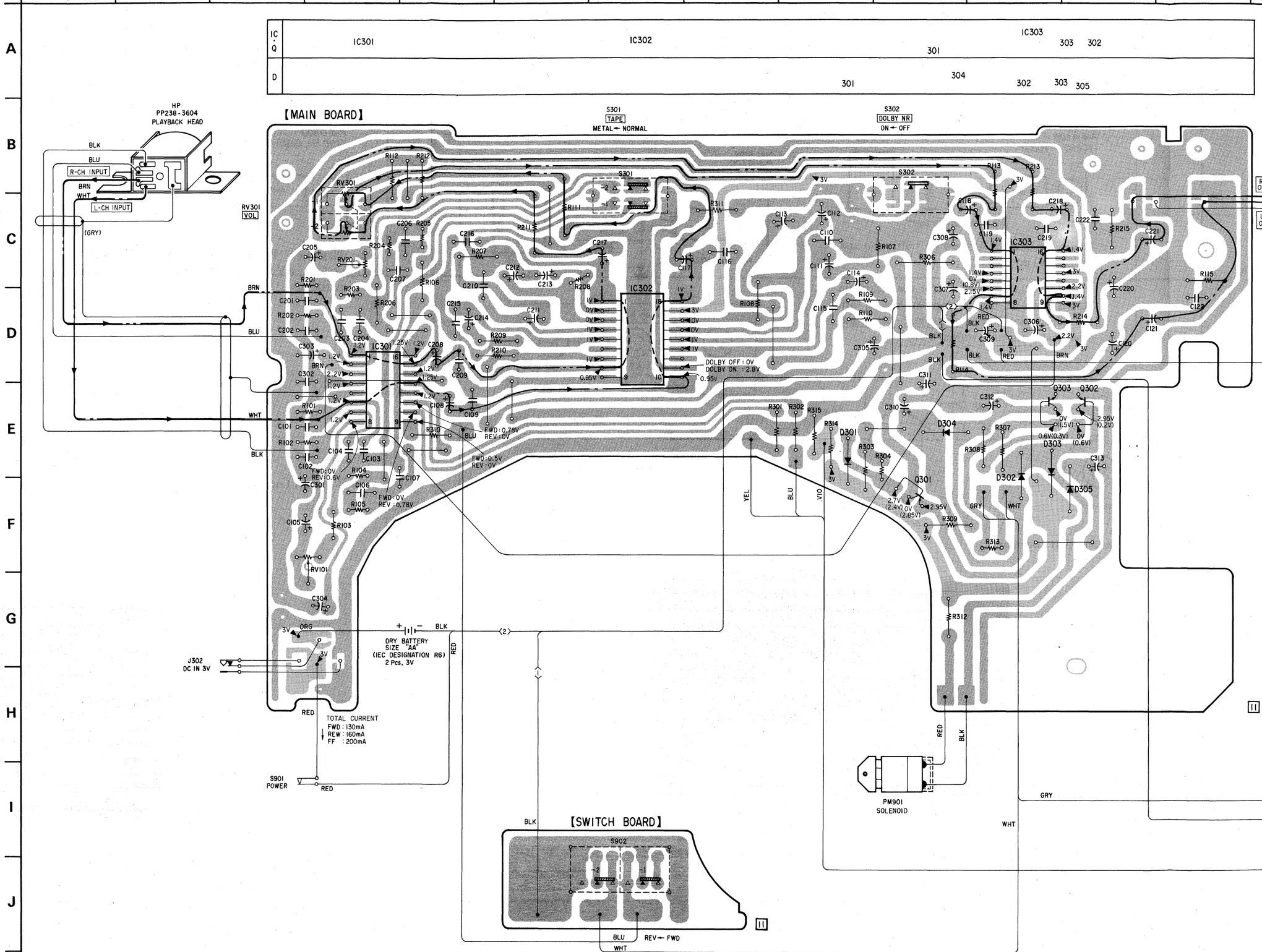
SR506D



- Color code of sleeving over the end of the jacket.



- ○—: parts extracted from the component side.
- ●—: parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ▒▒ : B+ pattern
- ▬▪▬▶ : L-CH signal path
- ▬▪▬▶ : R-CH signal path



4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

IC301 IC302 IC303 303 302 301 304 301 302 303 305

【SERVO BOARD】

S301 TAPE METAL ↔ NORMAL

S302 DOLBY NR ON ↔ OFF

M901 DNE-5700C MOTOR

R-CH OUTPUT

L-CH OUTPUT

J301 HEADPHONES

SERVO BOARD IS SUPPLIED WITH MOTOR(M901).

WHT RED BLU WHT RED BLK

IC301 IC302 IC303

DOLBY OFF : 0V
DOLBY ON : 2.8V

FWD : 0.78V
REV : 0V

FWD : 0.5V
REV : 0V

FWD : 0V
REV : 0.78V

Q301 Q302 Q303 D301 D302 D303 D304 D305

YEL BLU VIO GRY WHT

R312

DRY BATTERY
SIZE "AA"
(IEC DESIGNATION R6)
2 Pcs. 3V

BLK RED

CURRENT
10mA
10mA
100mA

PM901
SOLENOID

RED BLK

【SWITCH BOARD】

S902

BLU WHT REV ↔ FWD

【DIRECTION BOARD】

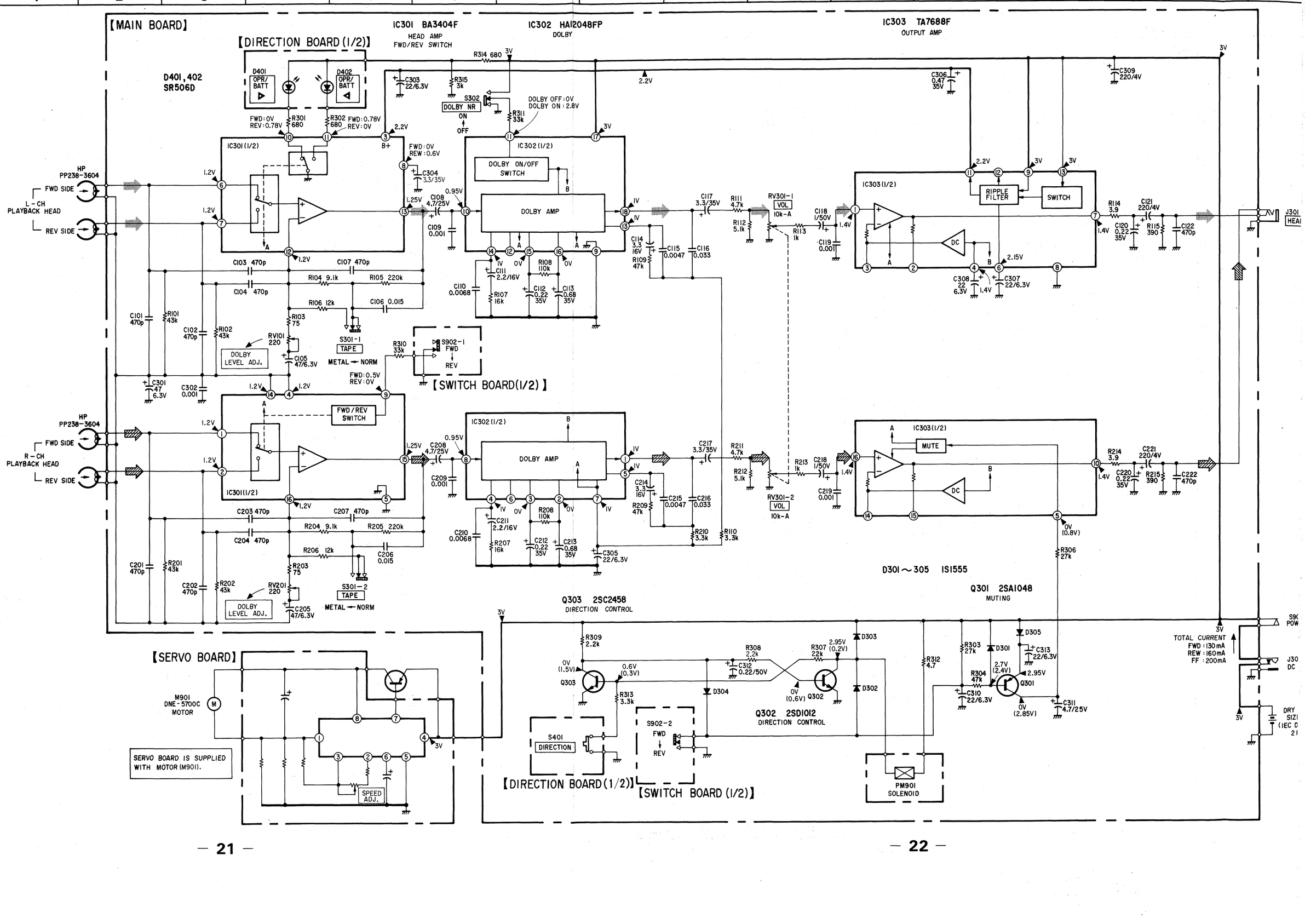
YEL GRY BLK BLU VIO

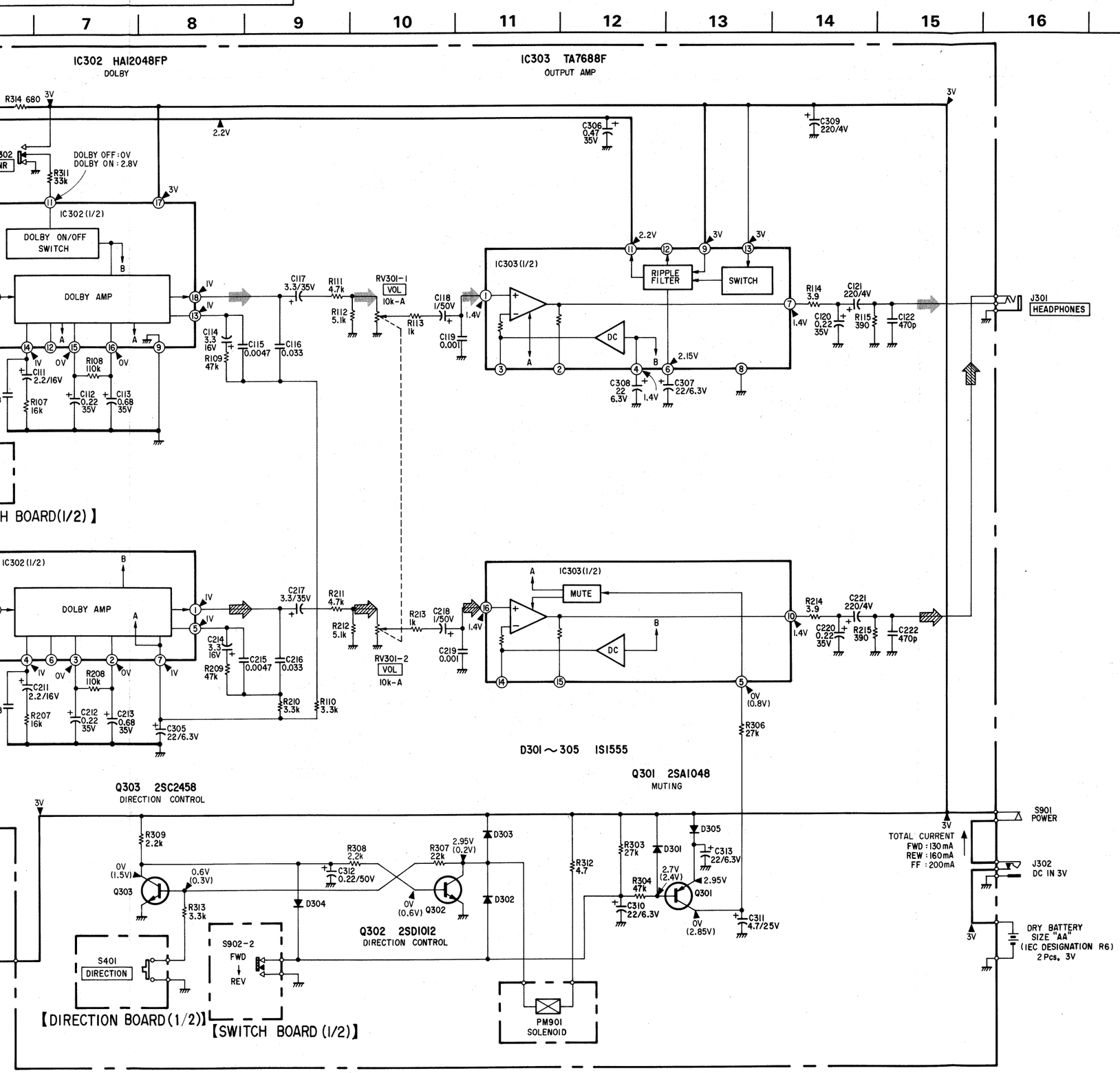
D401 D402

OPR / BATT ◀ OPR / BATT ▶

S401 DIRECTION

4-2. SCHEMATIC DIAGRAM





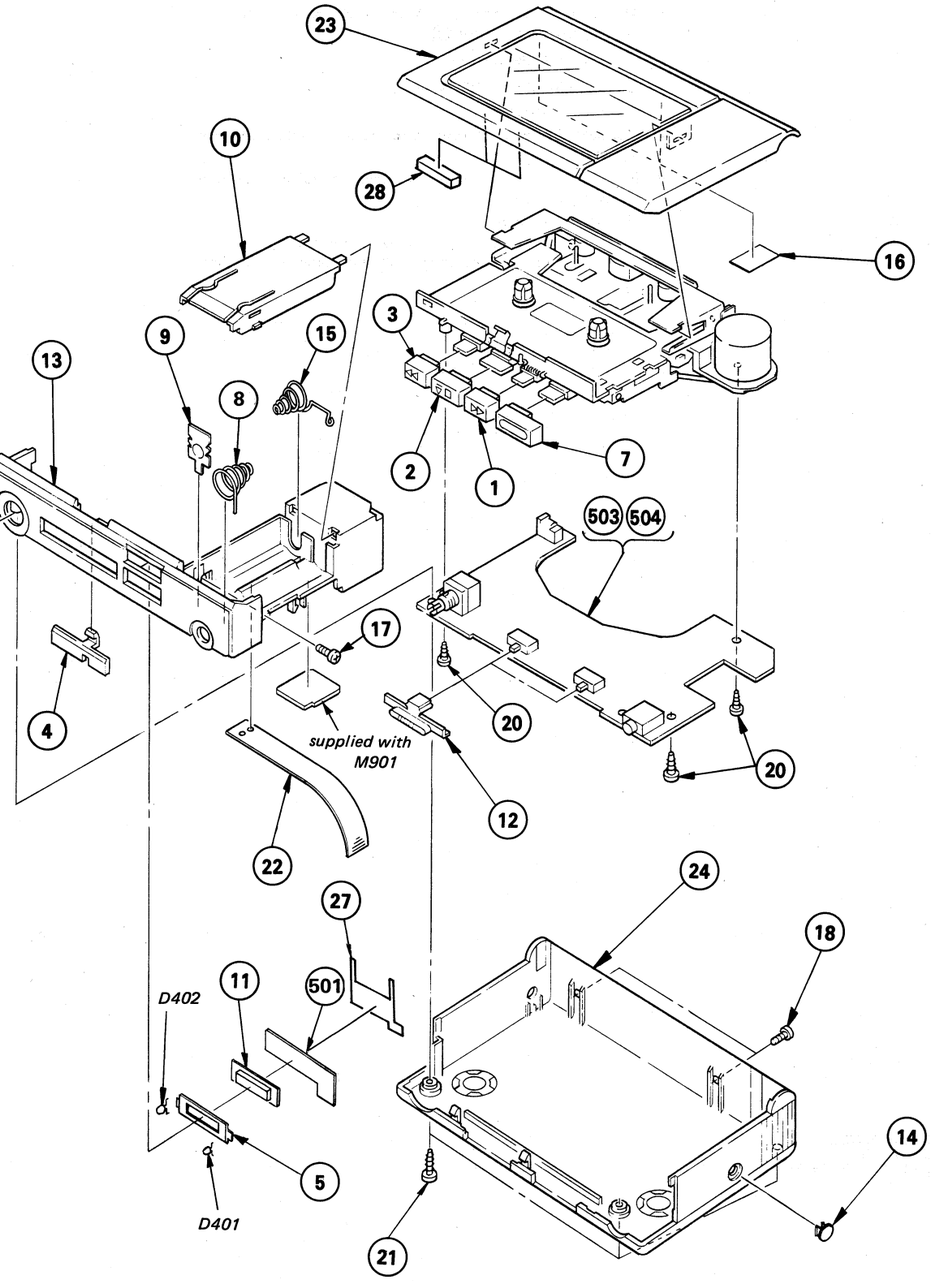
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/6 W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : panel designation.
- ▭ : adjustment for repair.
- ——: B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 kΩ/V).
- No mark : Playback
  ( ) : When playing direction switchover
- Total current is measured with no cassette installed.
- Switch

Ref. No.	Switch	Position
S301	TAPE SELECT	NORMAL
S302	DOLBY NR	OFF
S401	DIRECTION	OFF
S901	POWER	OFF
S902	FWD/REV	FWD

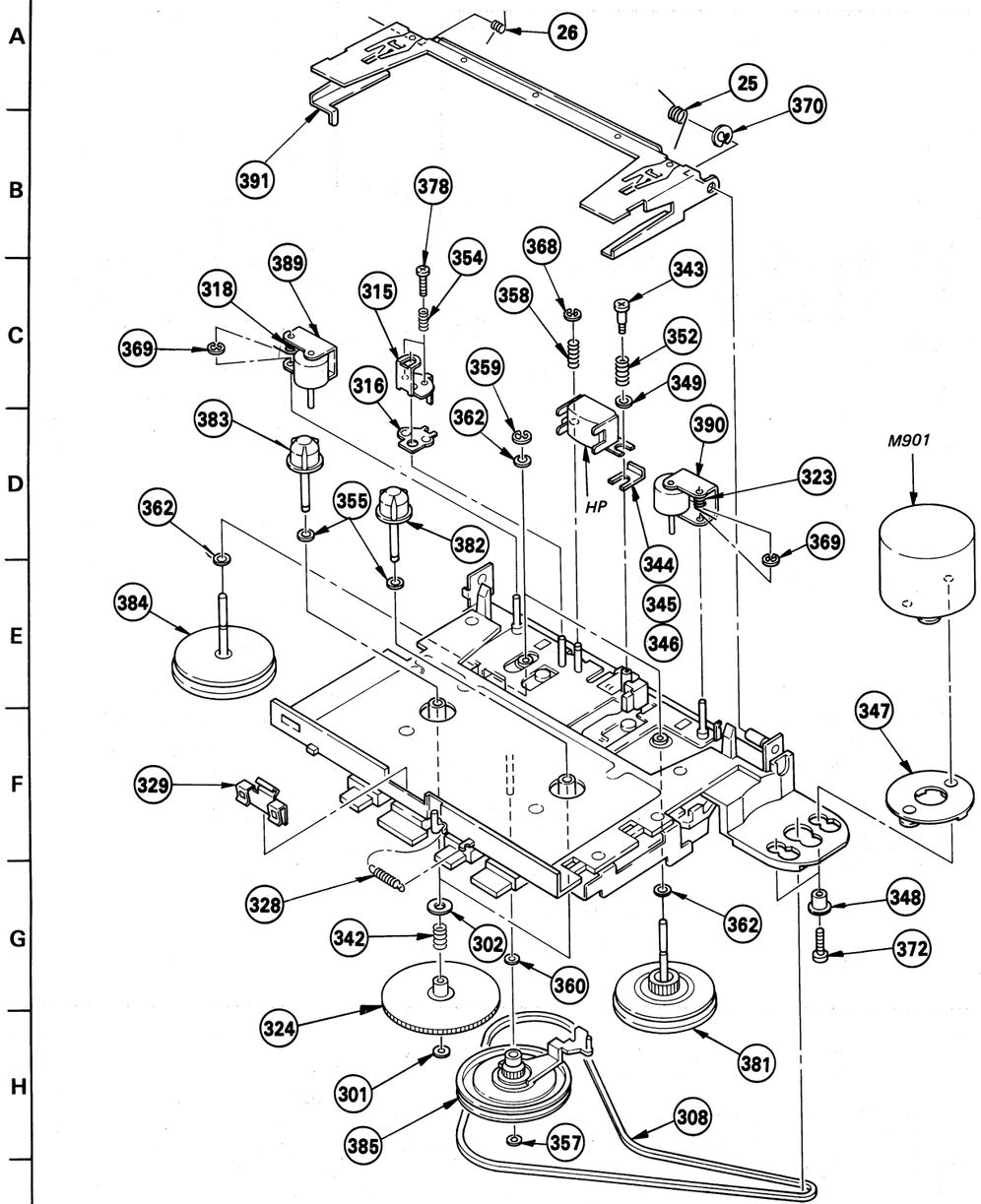
- ⇨ : L-CH signal path
- ⇨ : R-CH signal path

SECTION 5
EXPLODED VIEWS AND PARTS LIST

(1)

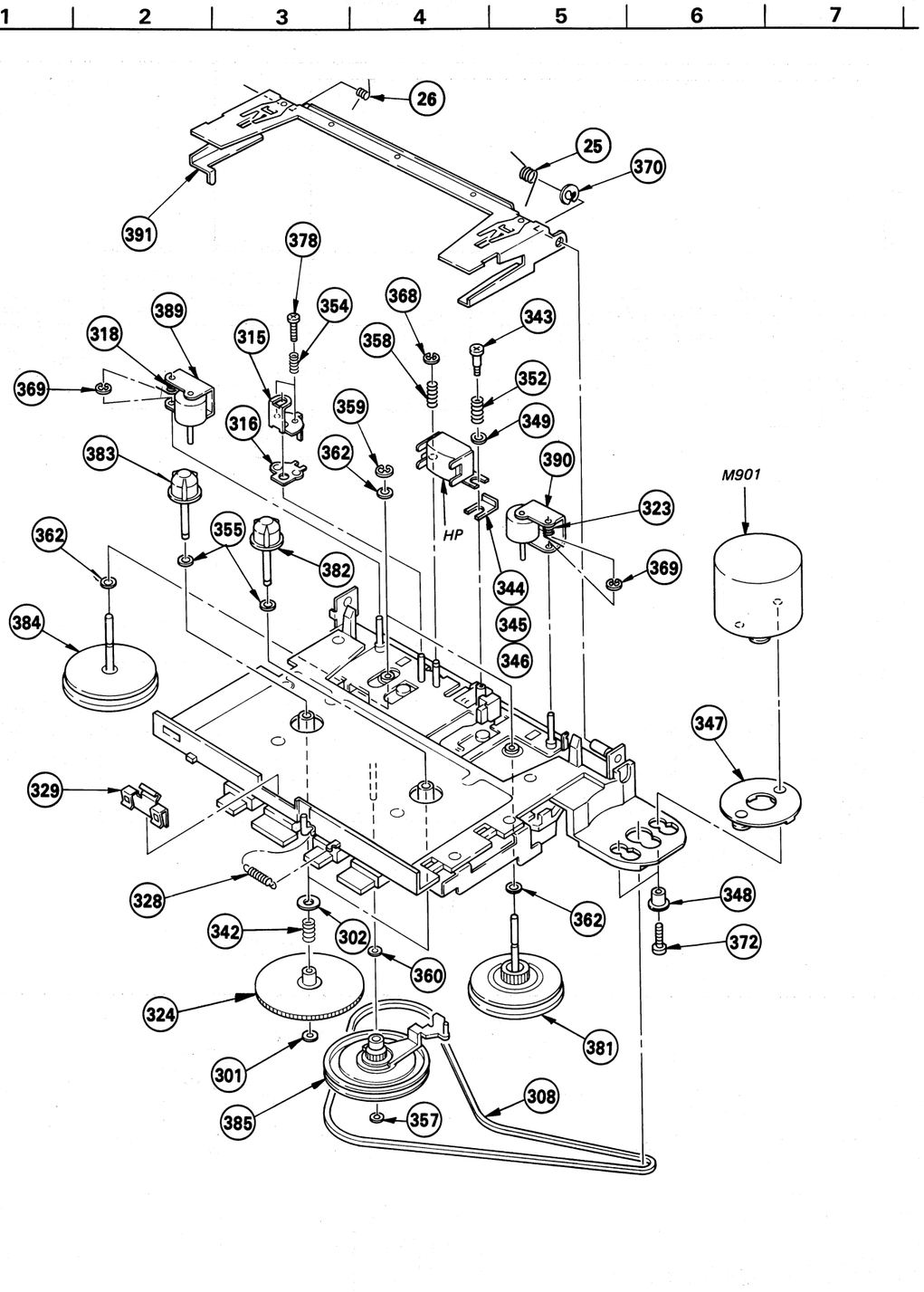


(2)



(3)

(2)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316
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383
362
390
M901
323
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355
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HP
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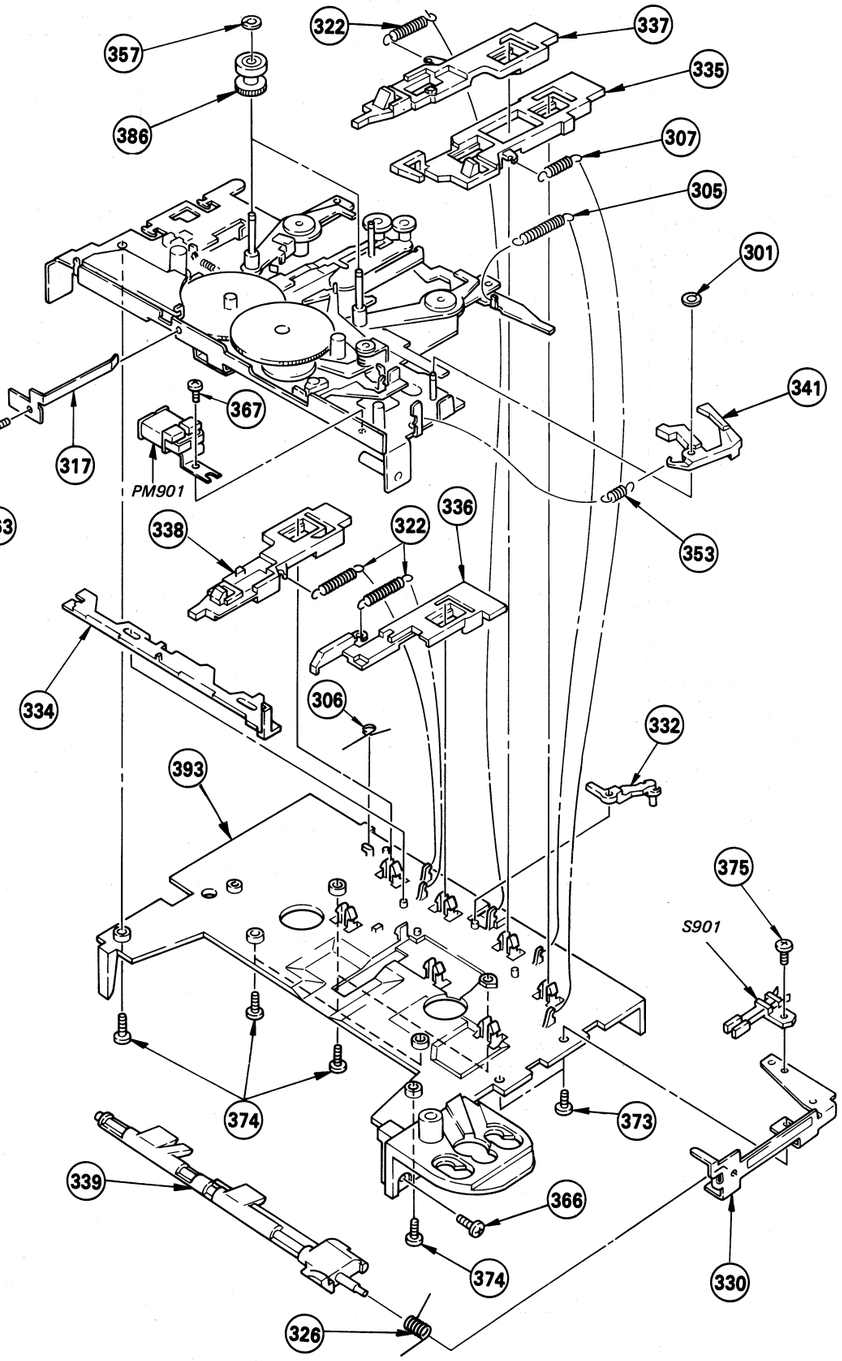
301
308
385
357

(3)


357
322
337
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PM901
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375
S901
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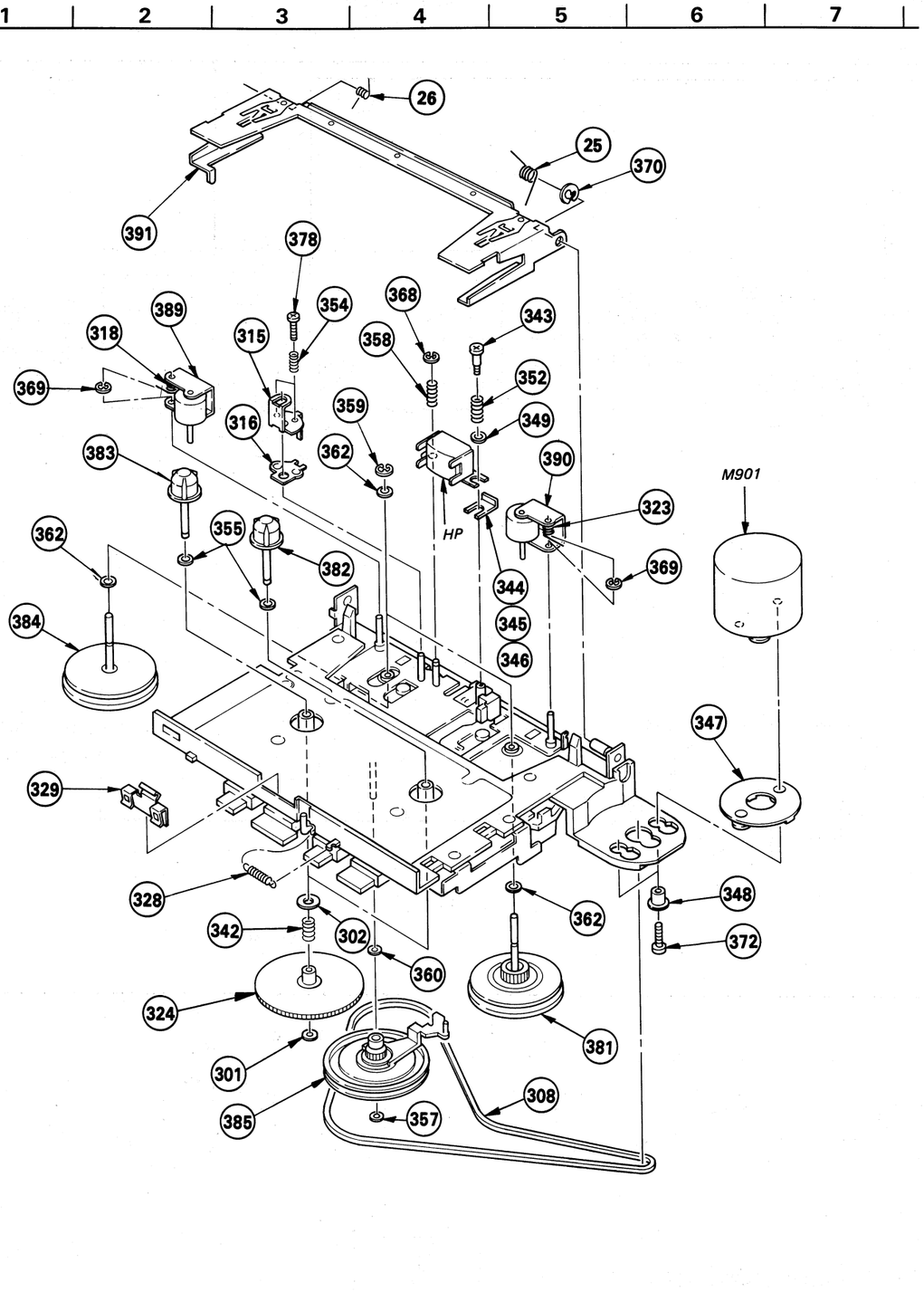
(2)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M901
HP
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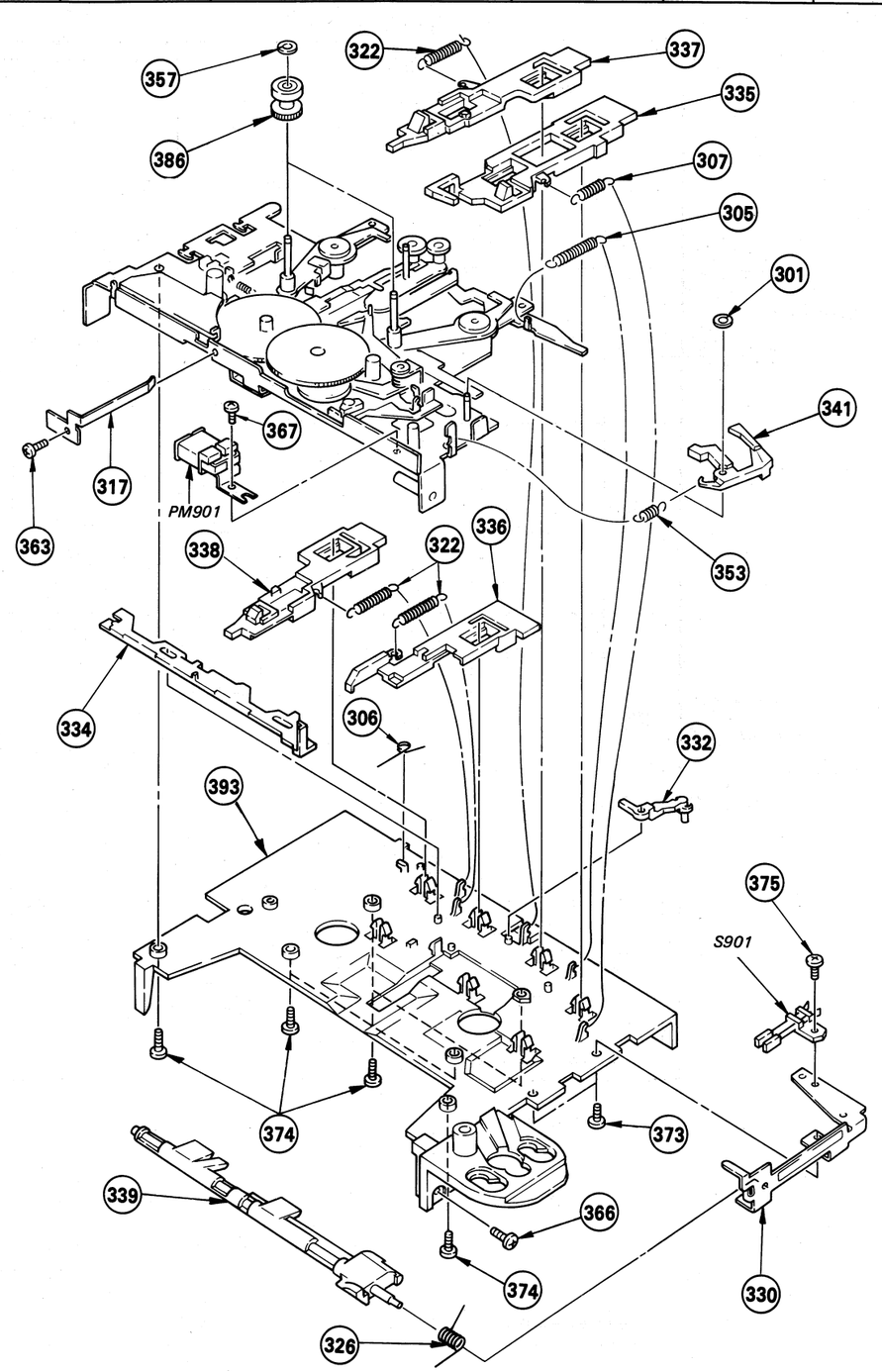
(3)


357
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PM901
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393
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S901
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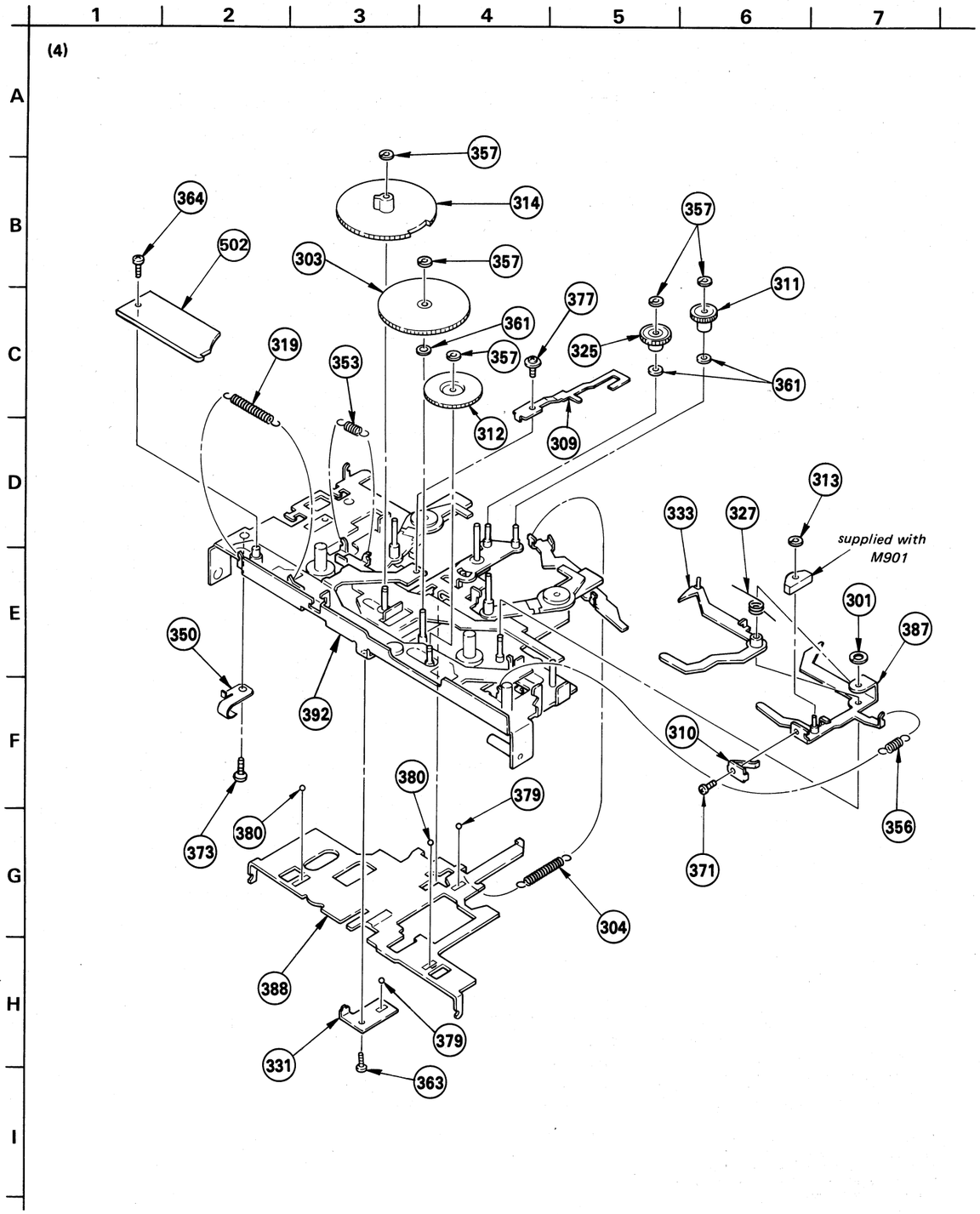
326



GENERAL SECTION

No.	Part No.	Description
1	3-316-435-00	BUTTON, REW
2	3-316-436-00	BUTTON, STOP
3	3-316-438-00	BUTTON, FF
4	3-317-201-01	CLAW, LOCK
5	3-317-202-01	RETAINER, DIRECTION BUTTON
6	3-317-203-01	KNOB, CONTROL
7	3-317-204-01	BUTTON, PLAY
8	3-317-205-01	SPRING
9	3-317-206-01	TERMINAL BOARD, BATTERY
10	3-317-210-01	LID, BATTERY CASE
11	3-317-211-01	BUTTON, DIRECTION
12	3-317-212-41	KNOB, SELECTION
13	3-317-214-01	PANEL, CONTROL
14	3-317-216-01	CAP, ADJUSTMENT HOLE
15	3-564-973-00	SPRING (B)
16	3-831-441-XX	CUSHION
17	7-621-255-15	SCREW +P 2X3
18	7-621-772-08	SCREW +B 2X3
19	.....	
20	7-685-103-11	SCREW +P 2X5 TYPE2 NON-SLIT
21	7-685-134-14	SCREW +P 2.6X8 TYPE2 NON-SLIT
22	9-911-816-01	RIBBON, BATTERY
23	X-3317-204-1	(US,Canadian)...LID ASSY, CASSETTE
23	X-3317-208-1	(AEP,UK,E).....LID ASSY, CASSETTE
24	A-3040-475-A	(US,Canadian)...CABINET ASSY
24	A-3040-476-A	(E).....CABINET ASSY
24	A-3040-477-A	(AEP,UK).....CABINET ASSY
25	3-317-221-01	SPRING (A)
26	3-317-222-01	SPRING (B)
27	3-317-220-01	PAPER (B), SHIELD
28	9-911-844-XX	CUSHION

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
51	3-317-223-01	SPACER
52	3-317-225-01	CUSHION
53	3-317-233-01	(US, Canadian).....INDIVIDUAL CARTON
53	3-317-230-01	(AEP, UK).....INDIVIDUAL CARTON
53	3-317-226-01	(E)..... INDIVIDUAL CARTON
54	3-570-631-00	BAG, POLYETHYLENE
55	3-701-999-00	LABEL, SERIAL NUMBER
56	3-703-707-01	STICKER, SONY SYMBOL (21)
57	3-773-779-11	(AEP,UK).....MANUAL, INSTRUCTION
57	3-773-779-21	(US,Canadian)...MANUAL, INSTRUCTION
57	3-773-779-51	(E).....MANUAL, INSTRUCTION
58	3-793-828-11	QUESTIONNAIRE
59	3-795-748-21	SAFETY INSTRUCTIONS, HEADPHONE
60	8-951-080-91	MDR-10L, HEADPHONE
61	X-3317-202-1	BELT ASSY, SHOULDER

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CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

WM-6/16

MECHANISM SECTION

No.	Part No.	Description
301	3-307-948-01	WASHER, NYLON
302	3-316-308-00	WASHER
303	3-316-313-00	GEAR (T)
304	3-316-316-00	SPRING, TENSION
305	3-316-318-00	SPRING, TENSION
306	3-316-319-00	SPRING
307	3-317-236-01	SPRING, TENSION
308	3-316-321-00	BELT
309	3-316-322-00	SPRING
310	3-316-323-00	SPRING
311	3-316-325-00	GEAR (A), FWD
312	3-316-329-00	GEAR, DETECTION
313	3-316-331-11	RING, STOPPER
314	3-316-334-00	GEAR, REVERSE
315	3-316-342-00	ARM, AZIMUTH
316	3-316-343-00	RETAINER, AZIMUTH
317	3-316-358-00	SPRING
318	3-316-359-00	SPRING (RIGHT)
319	3-316-360-00	SPRING, TENSION
320	.....	
321	.....	
322	3-316-363-00	SPRING, TENSION
323	3-316-364-00	SPRING (LEFT)
324	3-316-373-00	TABLE (SUPPLY), REEL
325	3-316-379-00	GEAR (B), FWD
326	3-316-382-00	SPRING
327	3-316-383-00	SPRING
328	3-316-385-00	SPRING, TENSION
329	3-316-386-00	SPRING
330 ♦	3-316-387-00	RETAINER, LOCK, PLATE
331	3-316-389-00	REATAINER (A), PC BOARD
332	3-316-393-00	PLATE, EJECT
333 ♦	3-316-396-00	ARM (A), TRIGGER
334	3-316-400-00	LEVER, SWITCH
335	3-316-406-00	LEVER, FWD
336	3-316-407-00	LEVER, STOP
337	3-316-408-00	LEVER, REW
338	3-316-409-00	LEVER, FF
339	3-316-410-00	PLATE, LOCK
340	.....	
341	3-316-449-00	PLATE, LOCK, REVERSE
342	3-316-452-00	SPRING, COMPRESSION
343	3-316-456-00	SCREW, STEP
344	3-316-457-01	SEAM
345	3-316-457-11	SEAM

MECHANISM SECTION

No.	Part No.	Description
346	3-316-457-21	SEAM
347	3-316-484-01	CUSHION, MOTOR
348	3-316-485-01	COLLAR (B), MOTOR
349	3-316-495-01	SPACER, HEAD FIXED
350	3-316-499-01	CLAMP, HEAD
351	.....	
352	3-318-106-01	SPRING (H), COMPRESSION
353	3-547-664-00	SPRING, TENSION
354	3-563-463-00	SPRING, COMPRESSION
355	3-570-129-00	WASHER (F)
356	3-570-587-00	SPRING, TENSION
357	3-570-615-00	POLY-WASHER (DIA.1.2)
358	3-579-759-00	SPRING, COMPRESSION
359	3-590-768-00	RING (A), E
360	3-701-436-01	WASHER, 1.6
361	3-701-436-11	WASHER, 1.6
362	3-701-437-11	WASHER
363	3-703-502-01	SCREW 1.4X1.6
364	3-703-502-11	SCREW 1.4X2
365	3-831-441-XX	CUSHION
366	7-621-255-15	SCREW +P 2X3
367	7-627-551-17	SCREW, PRECISION +P1.4X2.0
368	7-624-101-04	STOP RING 1.2 (E TYPE)
369	7-624-102-04	STOP RING 1.5, TYPE -E
370	7-624-105-04	STOP RING 2.3, TYPE -E
371	7-627-551-47	SCREW, PRECISION +P 1.4X1.4
372	7-627-552-58	SCREW, PRECISION +P 1.7X5
373	7-627-553-18	SCREW, PRECISION +P 2X2
374	7-627-554-18	+P 2X3.5
375	7-627-554-58	SCREW +P 2X2.8
376	7-627-850-07	SCREW, PRECISION +P 1.4X2
377	7-627-850-37	SCREW, PRECISION +P 1.4X1.4
378	7-627-850-67	SCREW, PRECISION +P 1.4X4
379	7-671-111-01	STEEL BALL 1MM
380	7-671-111-11	STEEL, BOUL 1.5MM
381	X-3316-301-0	FLYWHEEL (R) ASSY
382	X-3316-302-0	CLAW (SUPPLY) ASSY, REEL
383	X-3316-303-0	CLAW (TAKE-UP) ASSY, REEL
384	X-3316-304-0	FLYWHEEL (N) ASSY
385	X-3316-307-0	PULLEY ASSY, MIDWAY
386	X-3316-310-0	GEAR ASSY, FR
387	X-3316-312-0	ARM (A) ASSY, DETECTION
388	X-3316-313-0	CHASSIS ASSY, HEAD
389	X-3316-315-0	ARM (RIGHT) ASSY, PINCH
390	X-3316-316-0	ARM (LEFT) ASSY, PINCH
391	X-3316-323-2	HOLDER ASSY, CASSETTE
392	X-3316-324-1	CHASSIS ASSY
393	X-3317-203-1	CHASSIS ASSY, MOLD

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COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501 ♦	1-611-572-00	PC BOARD, DIRECTION			
502 ♦	1-611-573-00	PC BOARD, SWITCH			
503 ♦	1-611-664-11	PC BOARD, MAIN			
504 ♦	A-3015-230-A	PC BOARD ASSY, MAIN			
C101	1-102-114-00	CERAMIC	470PF	10%	50V
C102	1-102-114-00	CERAMIC	470PF	10%	50V
C103	1-102-114-00	CERAMIC	470PF	10%	50V
C104	1-102-114-00	CERAMIC	470PF	10%	50V
C105	1-123-647-00	ELECT	47MF	20%	6.3V
C106	1-130-485-00	MYLAR	0.015MF	5%	50V
C107	1-102-114-00	CERAMIC	470PF	10%	50V
C108	1-123-616-00	ELECT	4.7MF	20%	25V
C109	1-101-001-00	CERAMIC	0.001MF		50V
C110	1-130-481-00	MYLAR	0.0068MF	5%	50V
C111	1-131-500-00	TANTALUM	2.2MF	10%	16V
C112	1-131-343-00	TANTALUM	0.22MF	10%	35V
C113	1-131-346-00	TANTALUM	0.68MF	10%	35V
C114	1-131-368-00	TANTALUM	3.3MF	10%	16V
C115	1-130-479-00	MYLAR	0.0047MF	5%	50V
C116	1-130-489-00	MYLAR	0.033MF	5%	50V
C117	1-123-614-00	ELECT	3.3MF	20%	35V
C118	1-123-611-00	ELECT	1MF	20%	50V
C119	1-101-001-00	CERAMIC	0.001MF		50V
C120	1-131-343-00	TANTALUM	0.22MF	10%	35V
C121	1-123-827-00	ELECT	220MF	20%	4V
C122	1-102-114-00	CERAMIC	470PF	10%	50V
C301	1-123-647-00	ELECT	47MF	20%	6.3V
C302	1-101-001-00	CERAMIC	0.001MF		50V
C303	1-123-618-00	ELECT	22MF	20%	6.3V
C304	1-123-614-00	ELECT	3.3MF	20%	35V
C305	1-123-618-00	ELECT	22MF	20%	6.3V
C306	1-131-345-00	TANTALUM	0.47MF	10%	35V
C307	1-123-618-00	ELECT	22MF	20%	6.3V
C308	1-123-618-00	ELECT	22MF	20%	6.3V
C309	1-123-827-00	ELECT	220MF	20%	4V
C310	1-123-618-00	ELECT	22MF	20%	6.3V
C311	1-123-616-00	ELECT	4.7MF	20%	25V
C312	1-123-608-00	ELECT	0.22MF	20%	50V
C313	1-123-618-00	ELECT	22MF	20%	6.3V
D301	8-719-911-19	DIODE 1SS119			
D302	8-719-911-19	DIODE 1SS119			
D303	8-719-911-19	DIODE 1SS119			
D304	8-719-911-19	DIODE 1SS119			
D305	8-719-911-19	DIODE 1SS119			
D401	8-719-104-37	DIODE SR506D			
D402	8-719-104-37	DIODE SR506D			
HP	8-825-537-10	HEAD, PB			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
IC301	8-759-909-64	IC BA3404F			
IC302	8-759-300-61	IC HA12048FP			
IC303	8-759-200-95	IC TA7688F			
J301	1-507-787-11	JACK (HEADPHONES)			
J302	1-507-923-11	JACK, POWER, OUTSIDE (DC IN 3V)			
M901	8-835-100-01	MOTOR, DC (DNE-5700C)			
PM901	1-454-358-00	SOLENOID, PLUNGER			
Q301	8-729-117-54	TRANSISTOR 2SA1175			
Q302	8-729-102-03	TRANSISTOR 2SD1020			
Q303	8-729-245-83	TRANSISTOR 2SC2458			
R101	1-247-870-00	CARBON	43K	5%	1/6W
R102	1-247-870-00	CARBON	43K	5%	1/6W
R103	1-247-804-00	CARBON	75		1/6W
R104	1-247-854-00	CARBON	9.1K	5%	1/6W
R105	1-247-887-00	CARBON	220K	5%	1/6W
R106	1-247-857-00	CARBON	12K	5%	1/6W
R107	1-247-860-00	CARBON	16K	5%	1/6W
R108	1-247-880-00	CARBON	110K	5%	1/6W
R109	1-247-871-00	CARBON	47K	5%	1/6W
R110	1-247-843-00	CARBON	3.3K	5%	1/6W
R111	1-247-847-00	CARBON	4.7K	5%	1/6W
R112	1-247-848-00	CARBON	5.1K	5%	1/6W
R113	1-247-831-00	CARBON	1K	5%	1/6W
R114	1-247-773-00	CARBON	3.9	5%	1/6W
R115	1-247-821-00	CARBON	390	5%	1/6W
R301	1-247-827-00	CARBON	680	5%	1/6W
R302	1-247-827-00	CARBON	680	5%	1/6W
R303	1-247-865-00	CARBON	27K	5%	1/6W
R304	1-247-871-00	CARBON	47K	5%	1/6W
R306	1-247-865-00	CARBON	27K	5%	1/6W
R307	1-247-863-00	CARBON	22K	5%	1/6W
R308	1-247-839-00	CARBON	2.2K	5%	1/6W
R309	1-247-839-00	CARBON	2.2K	5%	1/6W
R310	1-247-867-00	CARBON	33K	5%	1/6W
R311	1-247-867-00	CARBON	33K	5%	1/6W
R312	1-247-775-00	CARBON	4.7	5%	1/6W
R313	1-247-843-00	CARBON	3.3K	5%	1/6W
R314	1-247-827-00	CARBON	680	5%	1/6W
R315	1-247-842-00	CARBON	3K	5%	1/6W
RV101	1-226-925-00	RES, ADJ, SOLID 220			
RV201	1-226-925-00	RES, ADJ, SOLID 220			
RV301	1-230-306-11	RES, VAR, CARBON 10K/10K (VOLUME)			
S301	1-554-574-00	SWITCH, SLIDE (TAPE SELECT)			
S302	1-554-698-00	SWITCH, SLIDE (DOLBY NR)			
S901	1-554-595-00	SWITCH, LEAF (POWER)			
S902	1-554-696-11	SWITCH, SLIDE (RWD/REV)			

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC,
UPD···: μPD···

9-951-358-11

Sony Corporation

English
84B02136-1
Printed in Japan
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WM-6/16

SERVICE MANUAL

WM-6:
AEP Model
UK Model
E Model

WM-16:
US Model
Canadian Model

SUPPLEMENT

File this Supplement with the Service Manual.

Subject: ADDITIONAL COLOR VARIATION

No. 1
April, 1984

Add the following parts on page 28 in the service manual.
See page 24 in the service manual for exploded view.

the service manual

No.	Description	Color	Part No.				
			US model	Canadian model	AEP model	UK model	E model
12	KNOB, SELECTION	white	.....	3-317-212-01	3-317-212-01	3-317-212-01	.....
		pink	.....	.....	3-317-212-11	3-317-212-11	.....
		blue	.....	.....	3-317-212-21	3-317-212-21	.....
		red	.....	3-317-212-31	3-317-212-31	3-317-212-31	.....
		silver	3-317-212-41	3-317-212-41	3-317-212-41	3-317-212-41	3-317-212-41
14	CAP, ADJUSTMENT HOLE	white	.....	3-317-216-01	3-317-216-01	3-317-216-01	.....
		pink	.....	.....	3-317-216-11	3-317-216-11	.....
		blue	.....	.....	3-317-216-21	3-317-216-21	.....
		red	.....	3-317-216-31	3-317-216-31	3-317-216-31	.....
		silver	3-317-216-01	3-317-216-01	3-317-216-01	3-317-216-01	3-317-216-01
23	LID ASSY, CASSETTE	white	.....	X-3317-213-1	X-3317-209-1	X-3317-209-1	.....
		pink	.....	.....	X-3317-210-1	X-3317-210-1	.....
		blue	.....	.....	X-3317-211-1	X-3317-211-1	.....
		red	.....	X-3317-214-1	X-3317-212-1	X-3317-212-1	.....
		silver	X-3317-204-1	X-3317-215-1	X-3317-208-1	X-3317-208-1	X-3317-208-1
24	CABINET ASSY	white	.....	X-3317-227-1	X-3317-222-1	X-3317-222-1	.....
		pink	.....	.....	X-3317-223-1	X-3317-223-1	.....
		blue	.....	.....	X-3317-224-1	X-3317-214-1	.....
		red	.....	X-3317-228-1	X-3317-225-1	X-3317-225-1	.....
		silver	X-3317-226-1	X-3317-226-1	X-3317-221-1	X-3317-221-1	X-3317-220-1

STEREO CASSETTE PLAYER

SONY®

9-951-358-81

Sony Corporation

English
84D02136-1
Printed in Japan
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